

FIG. 1

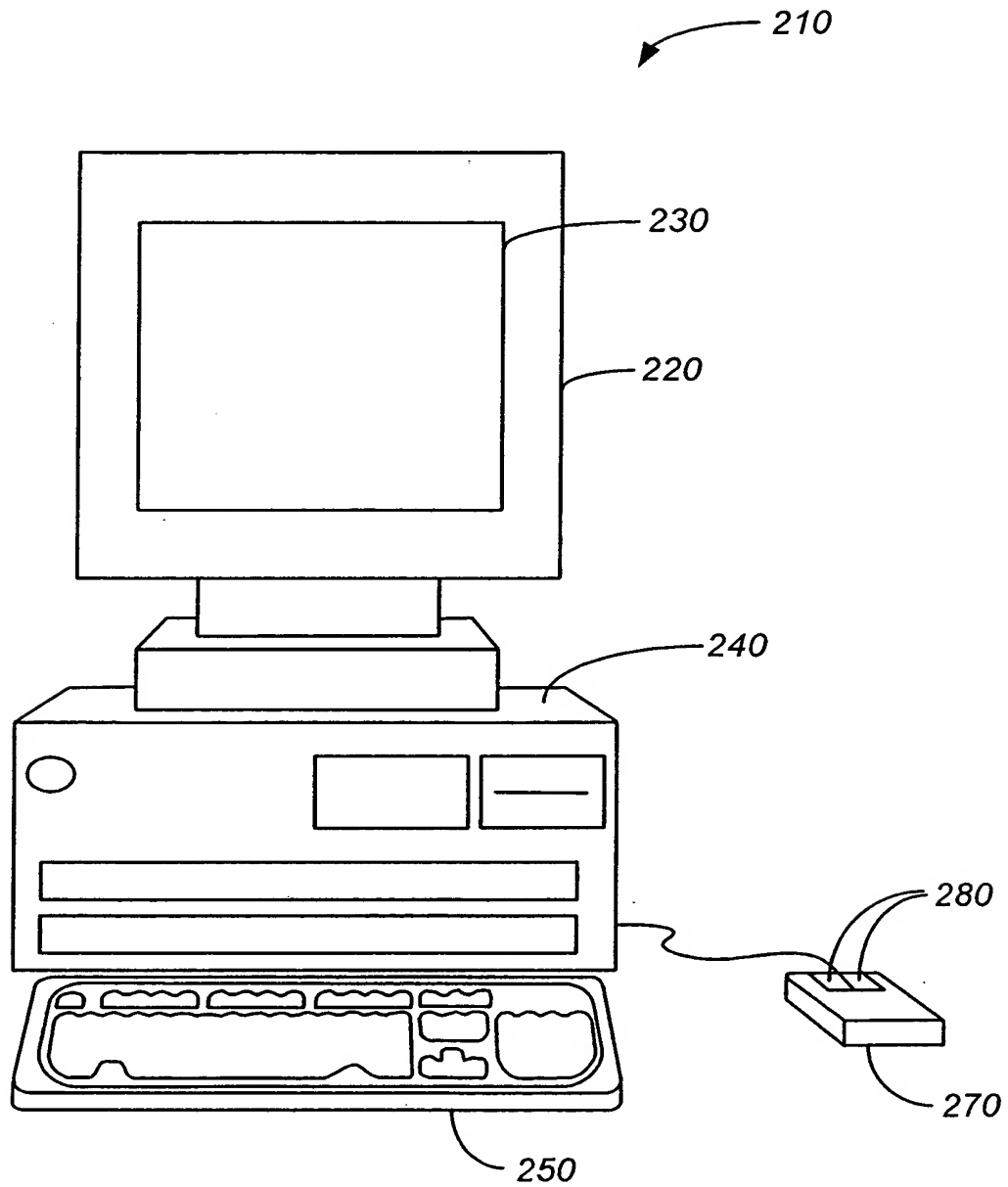


FIG. 2

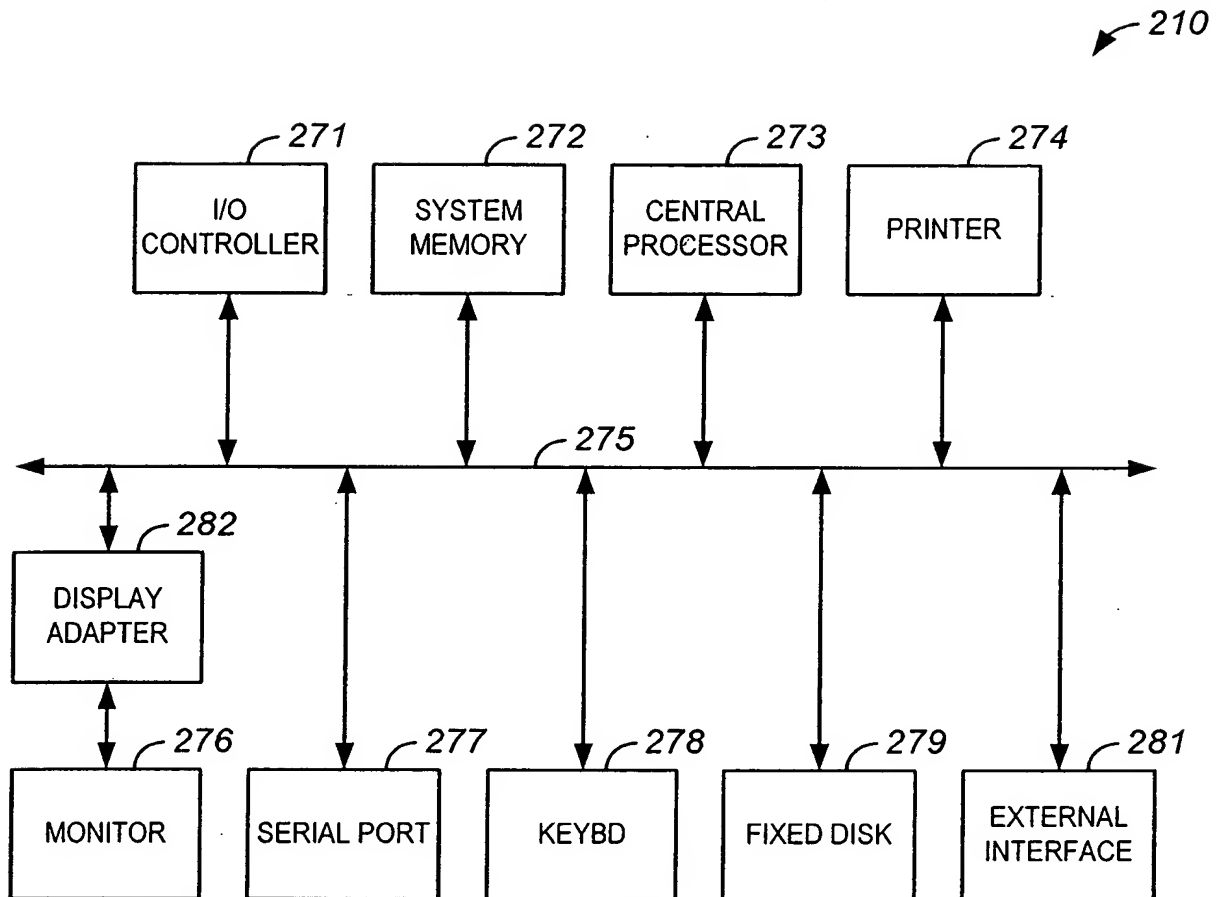


FIG. 2A

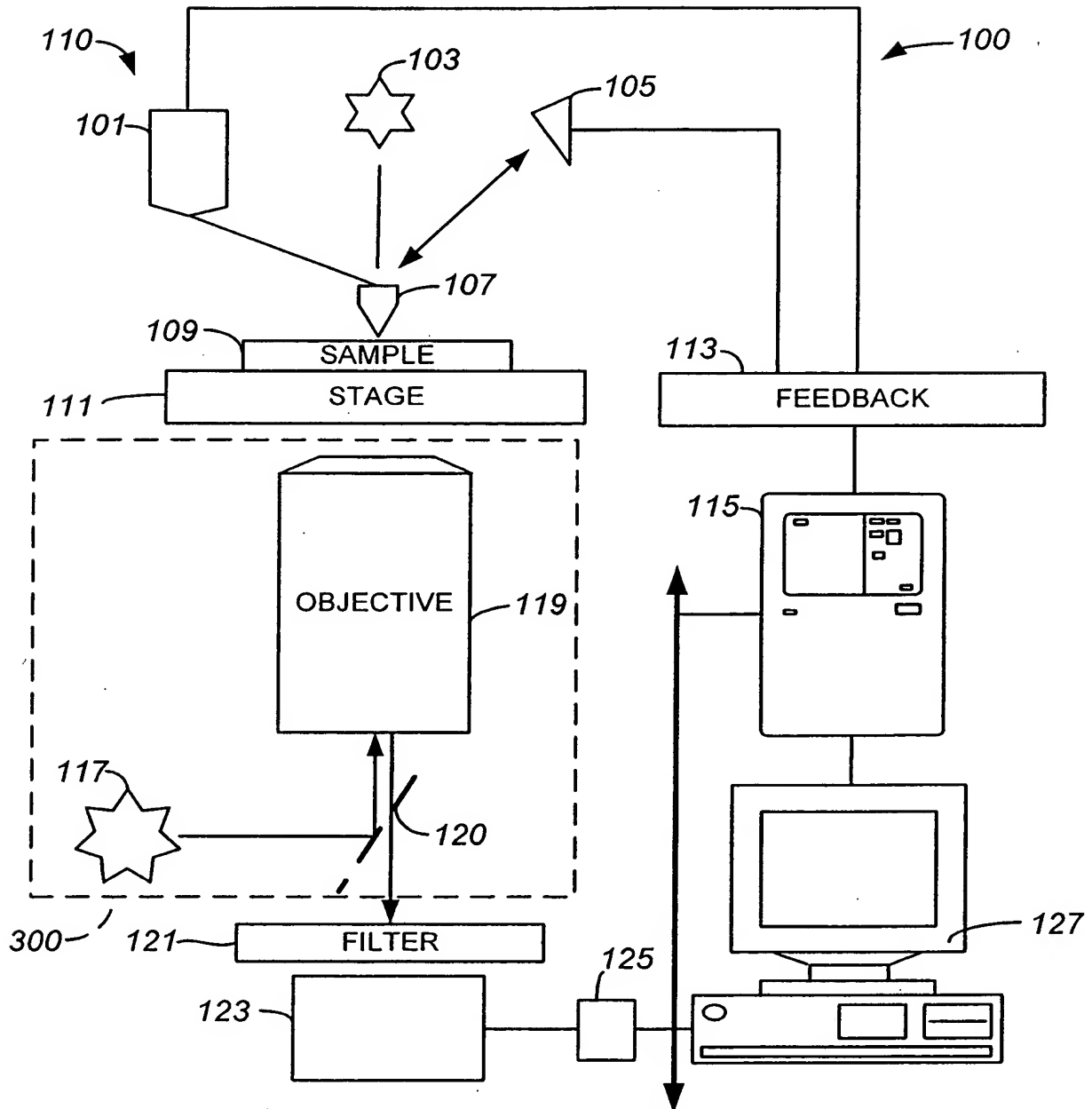


FIG. 3

5/38

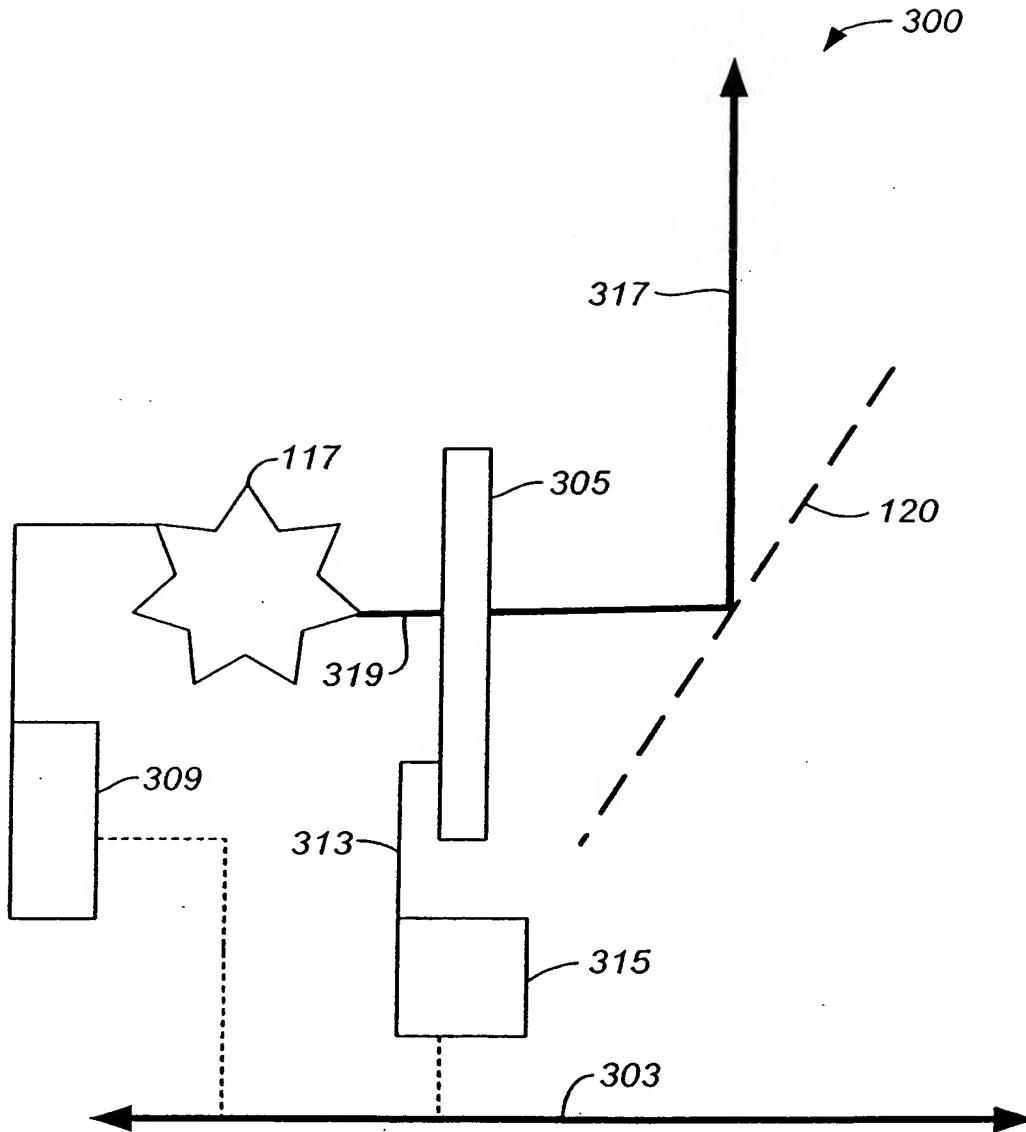


FIG. 3A

6/38

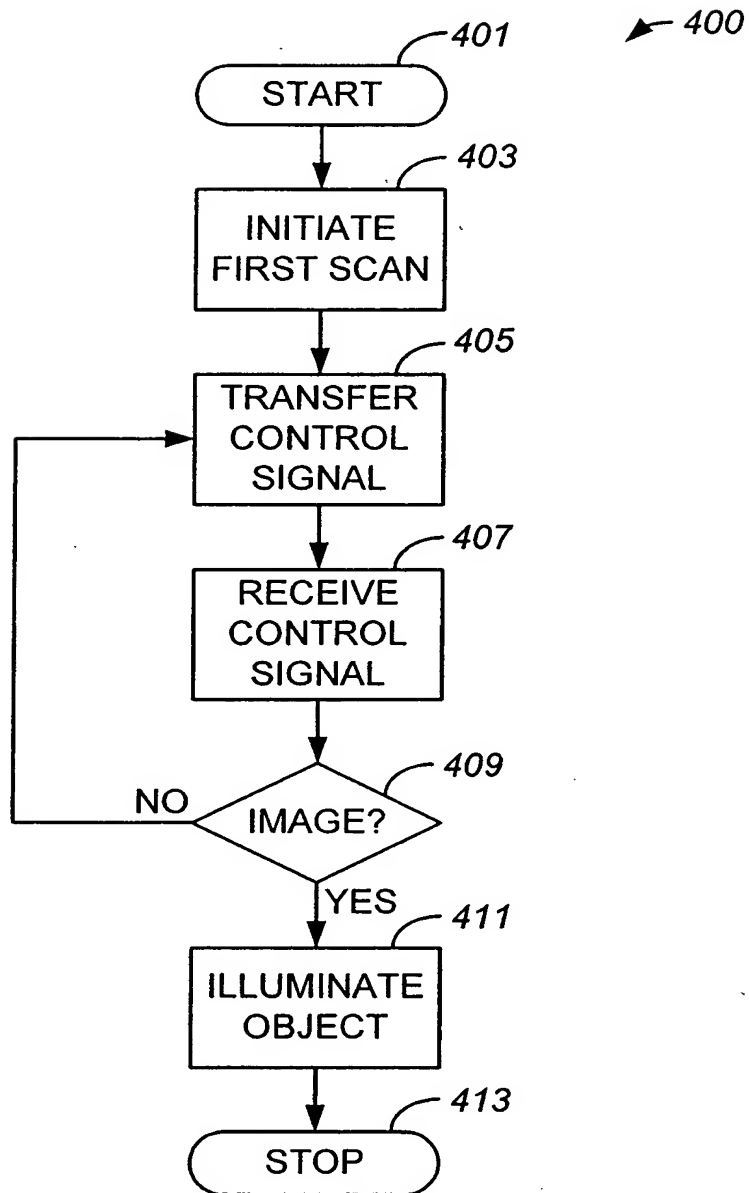


FIG. 4

7/38

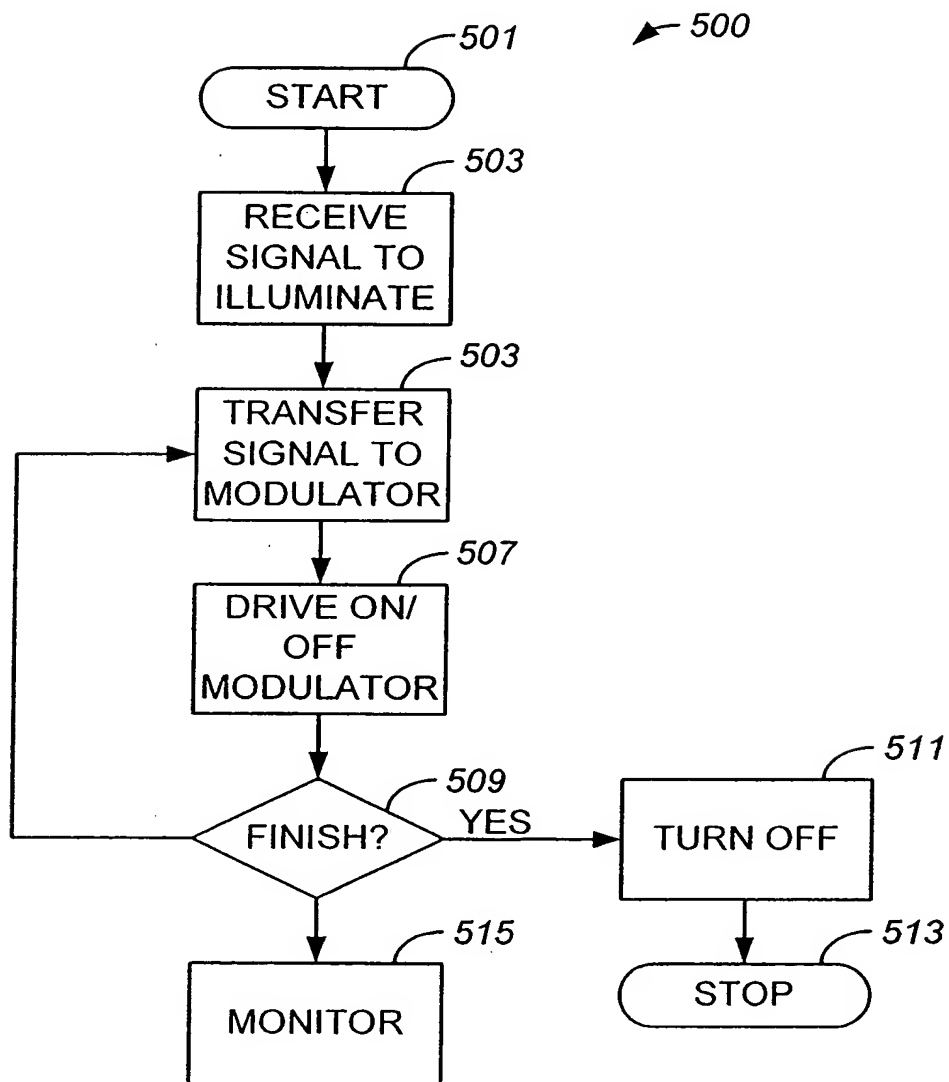


FIG. 5

8/38

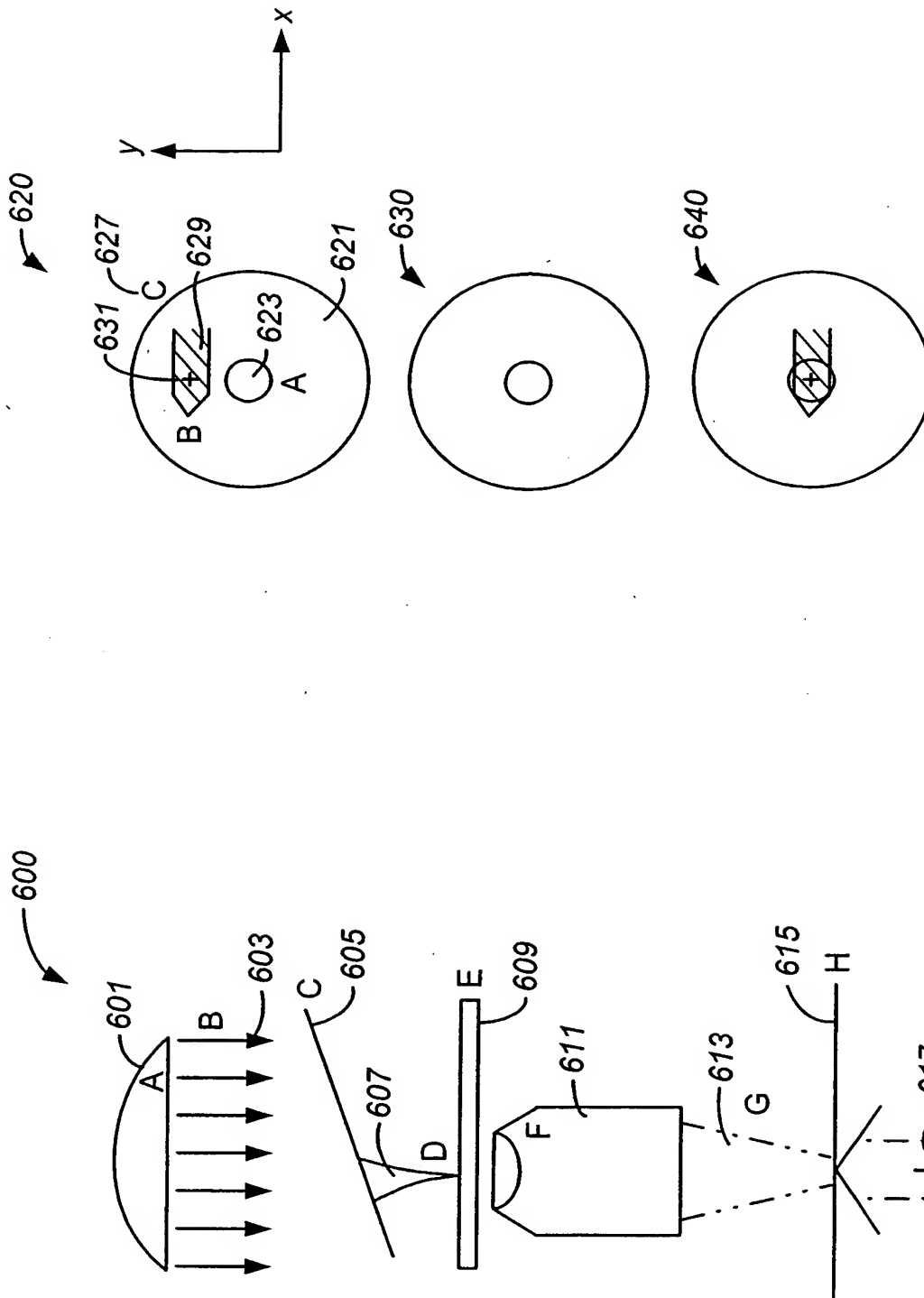
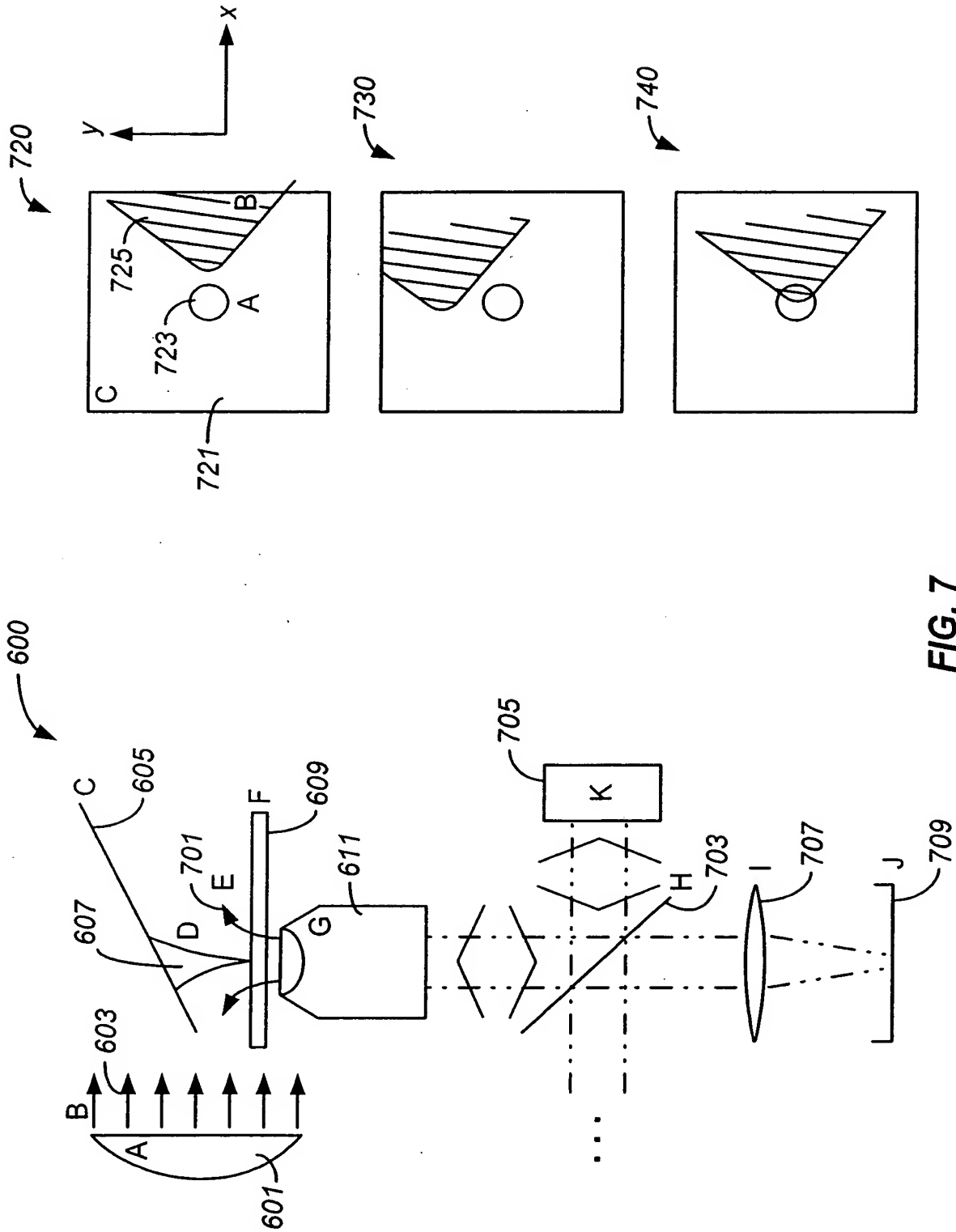


FIG. 6

9/38



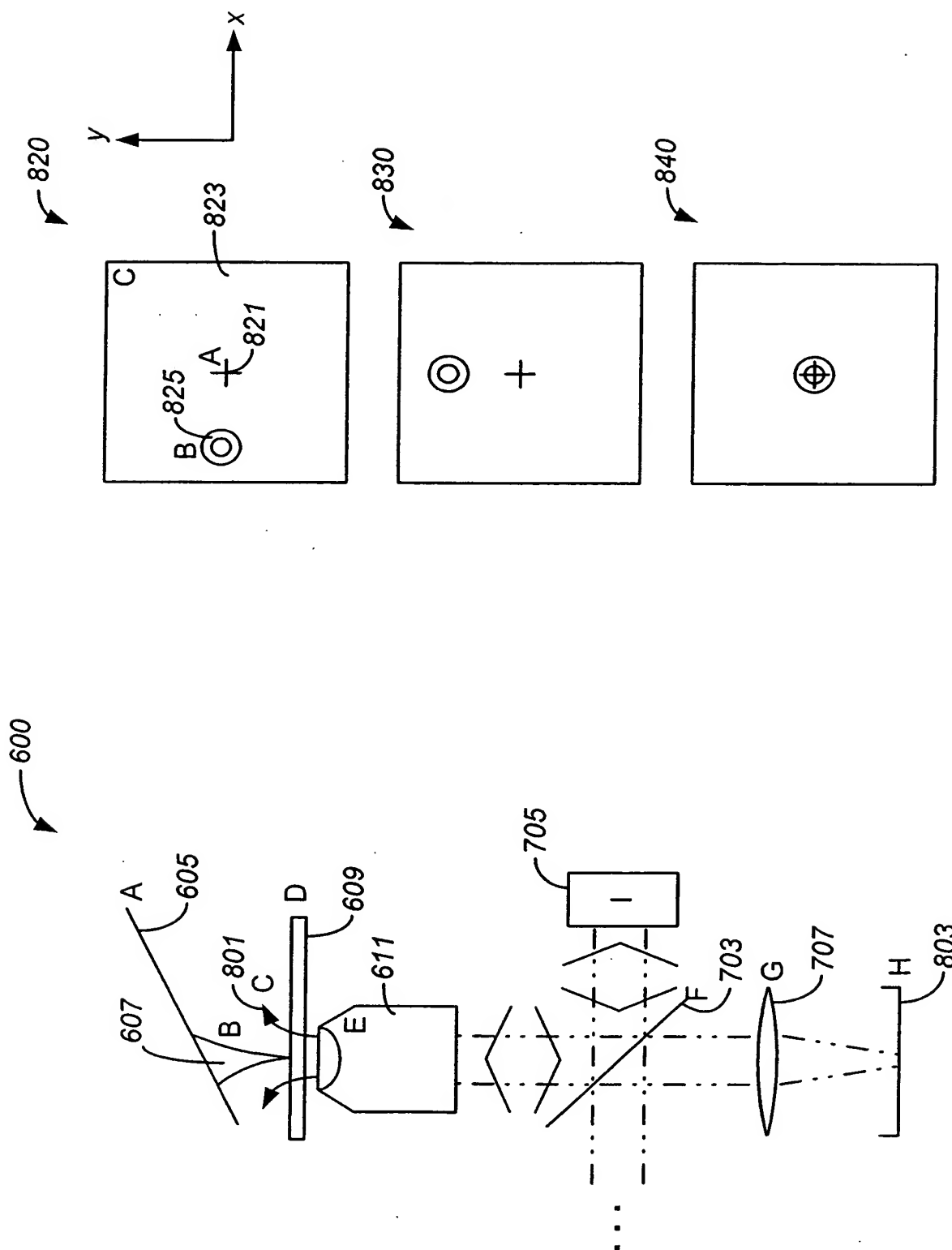


FIG. 8

11/38

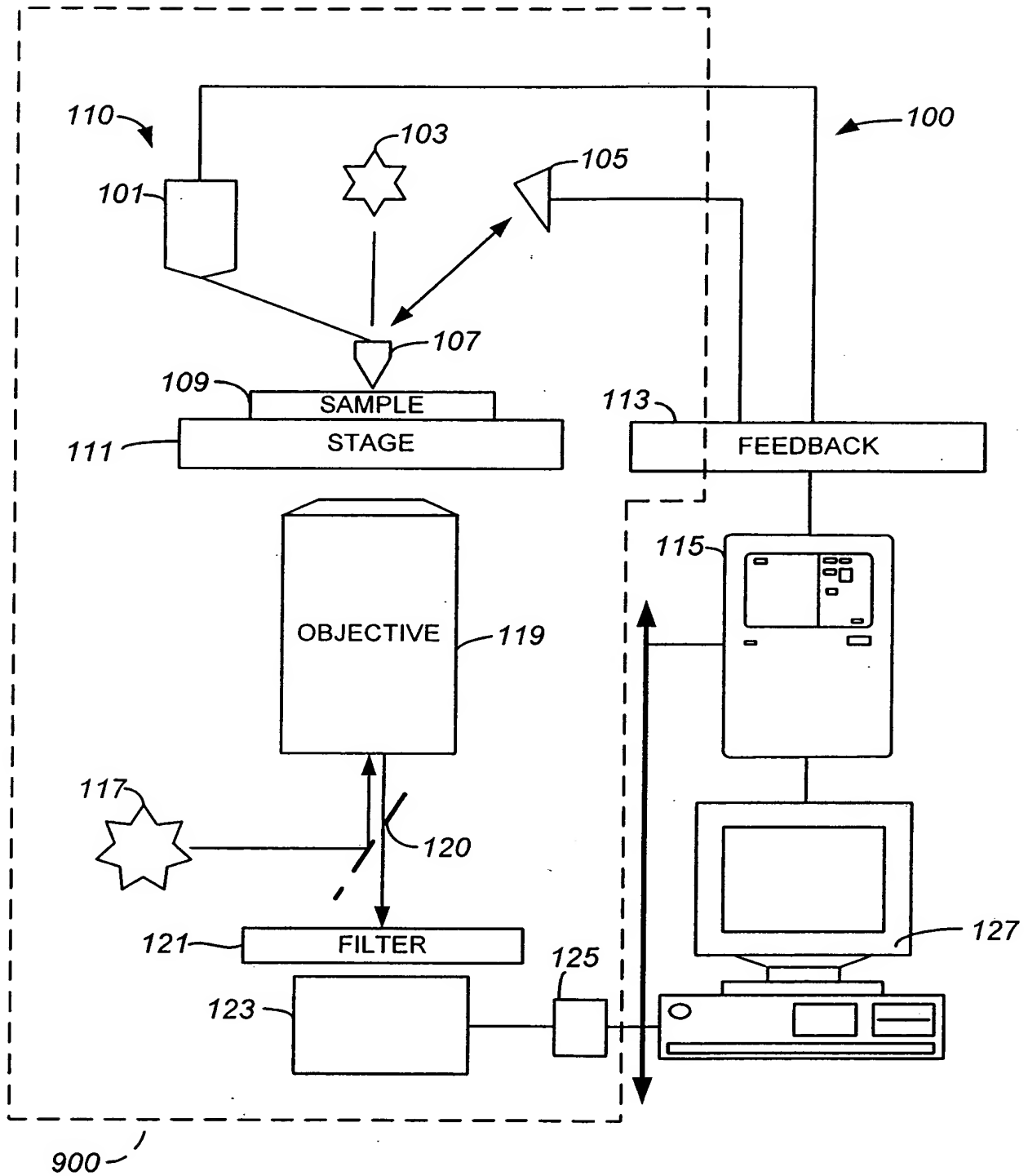


FIG. 9

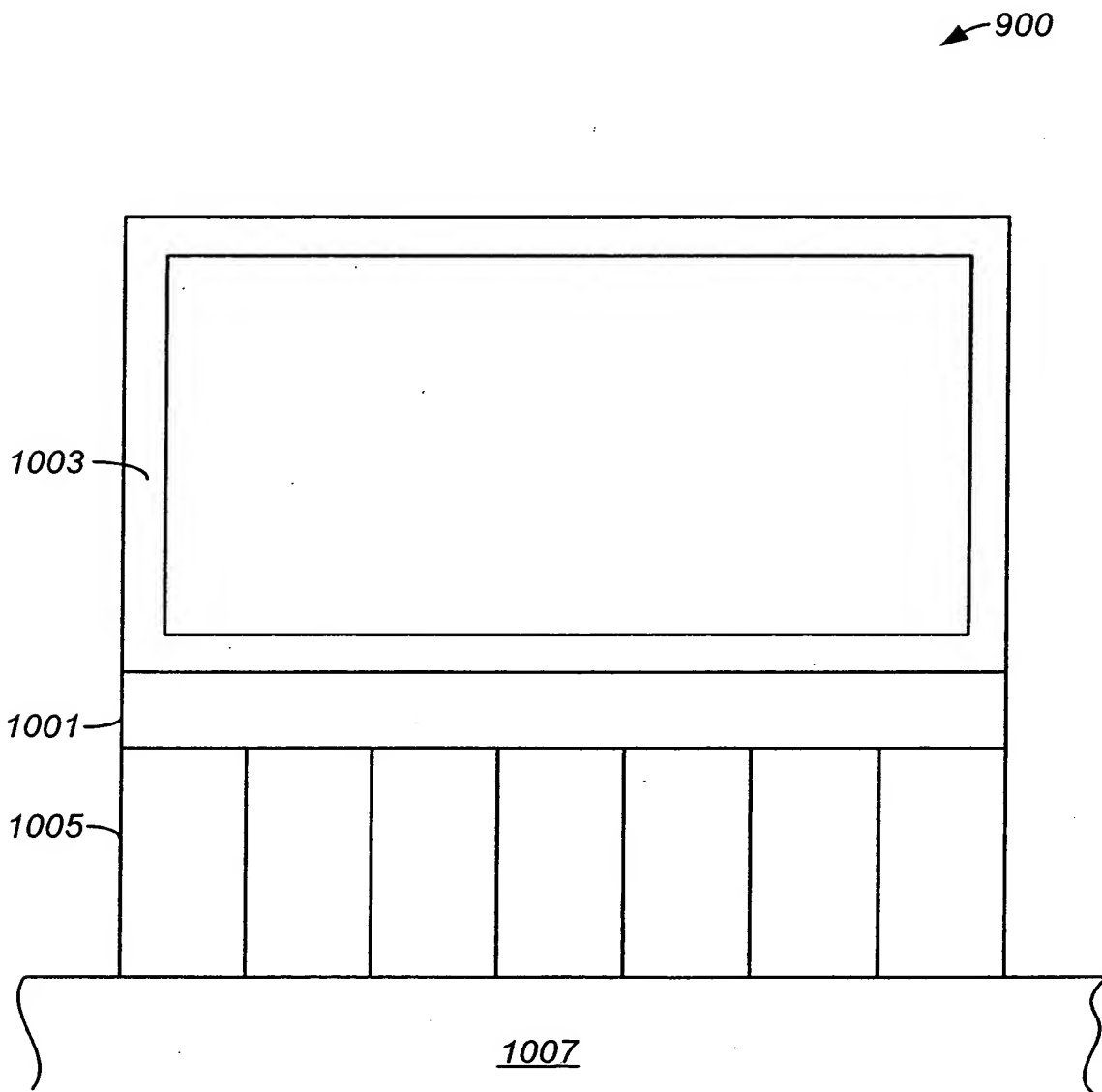


FIG. 10

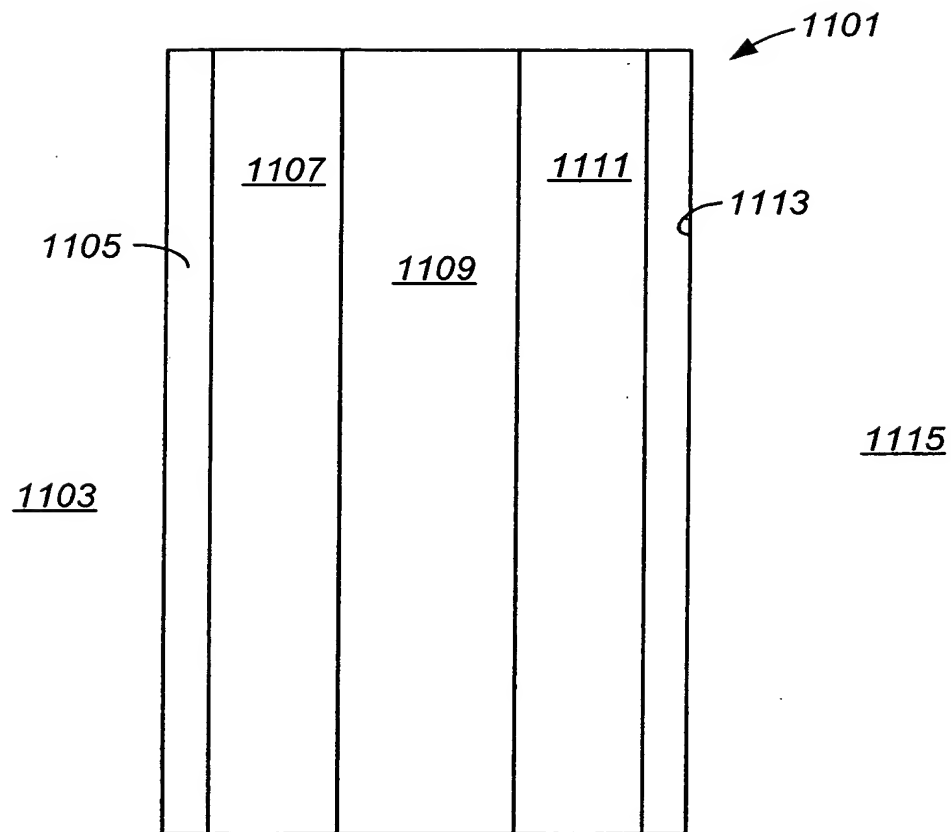


FIG. 11

14/38

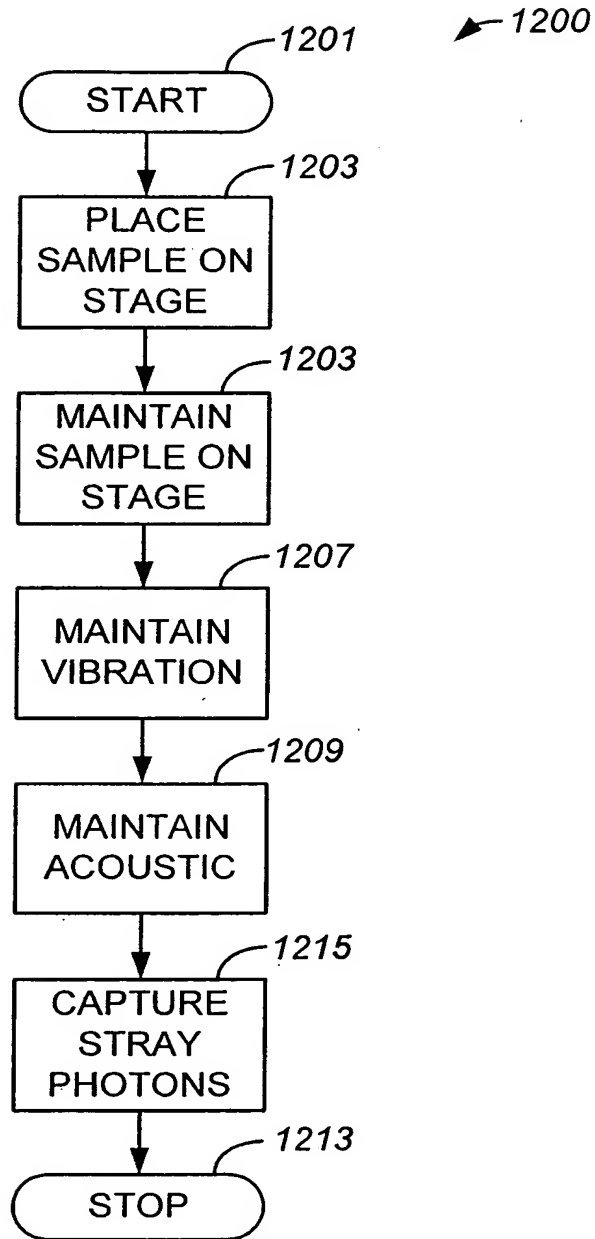


FIG. 12

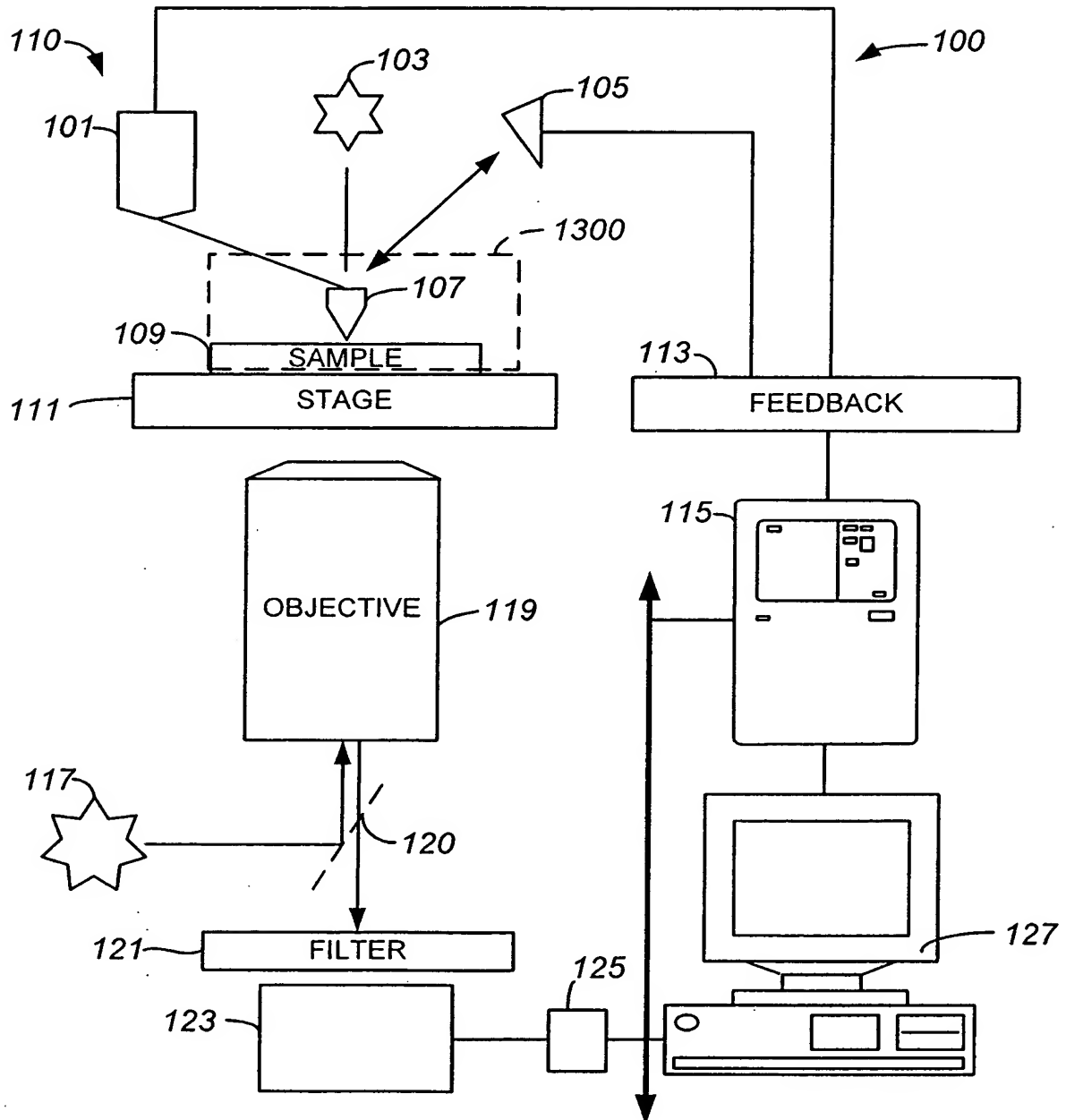


FIG. 13

16/38

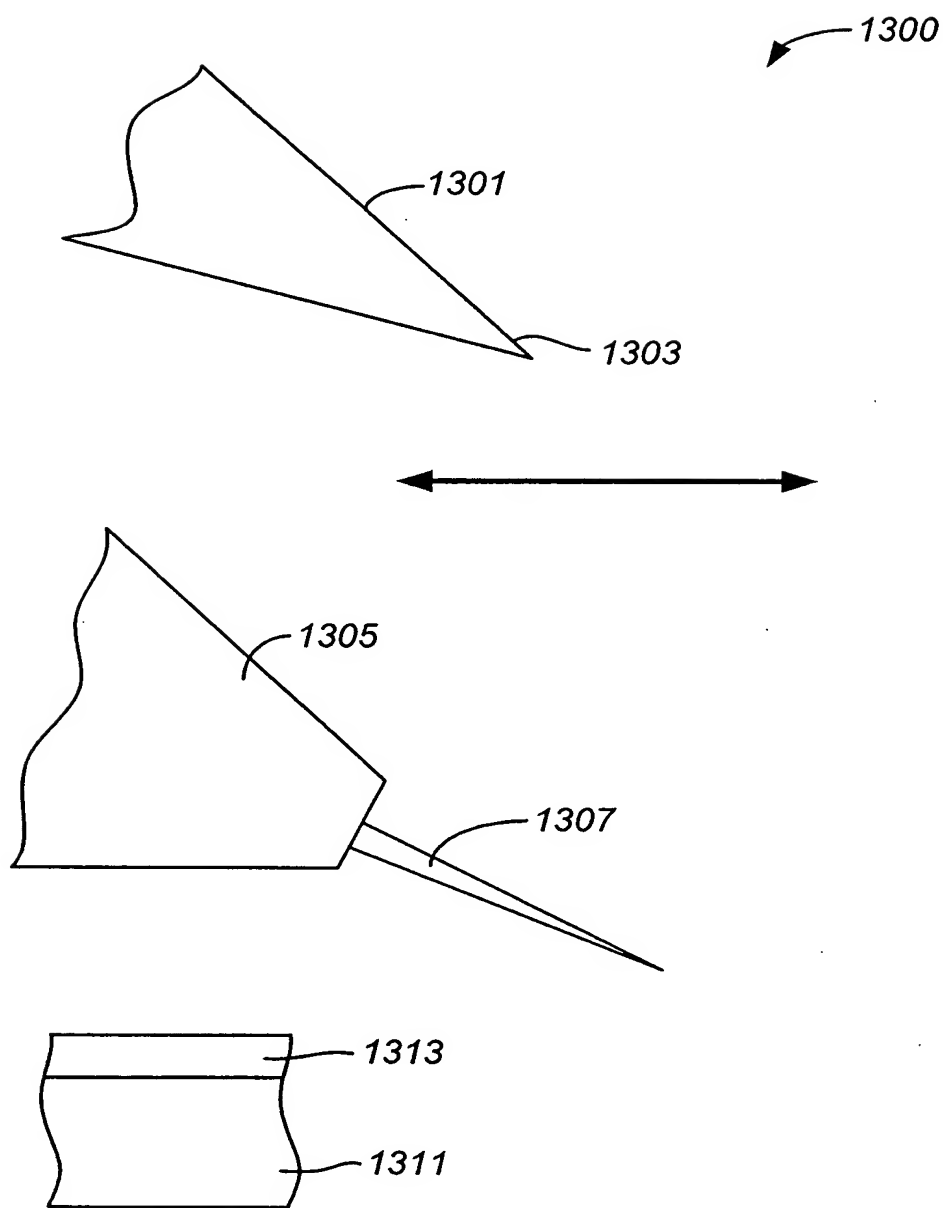


FIG. 14

17/38

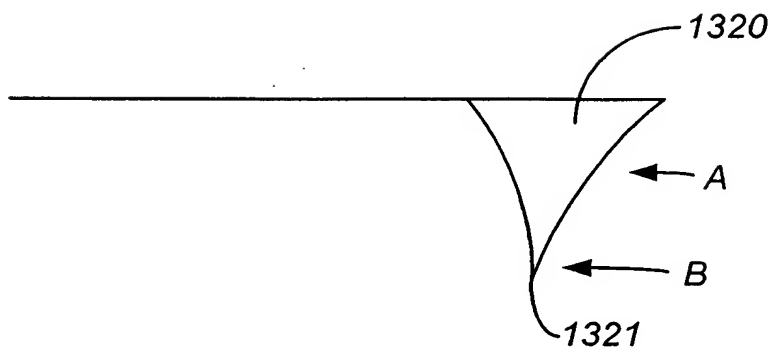


FIG. 14A

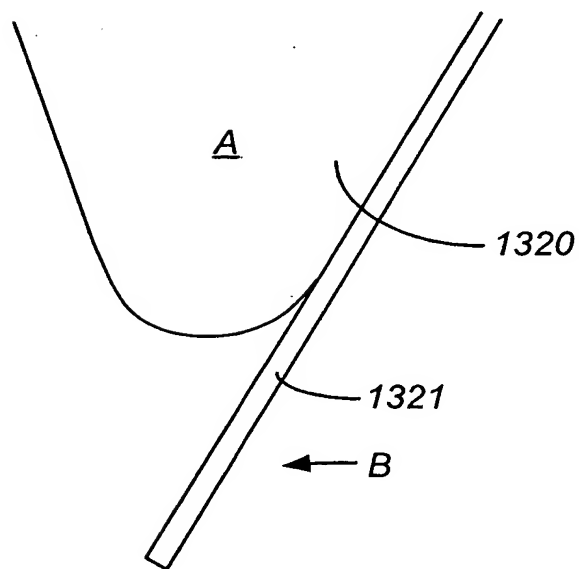


FIG. 14B

18/38



FIG. 14C



FIG. 14D

19/38

1405

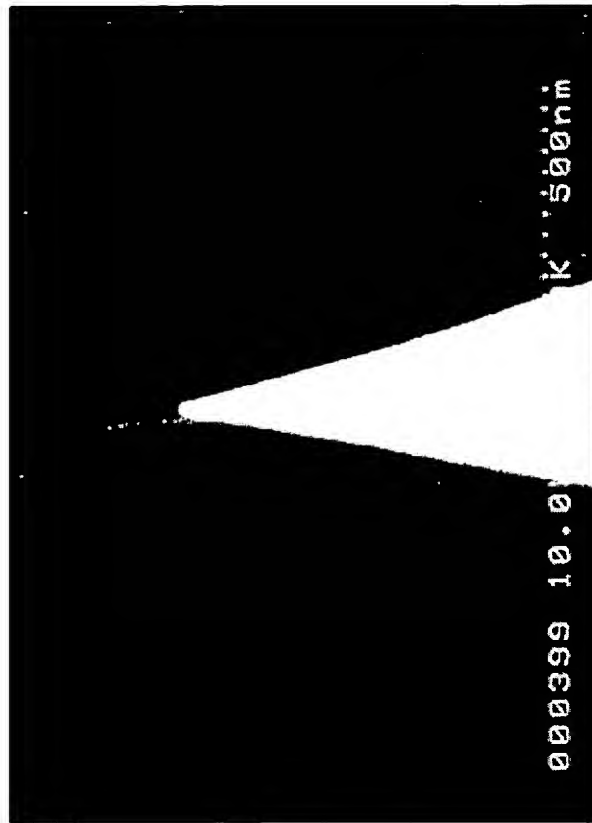


FIG. 14E

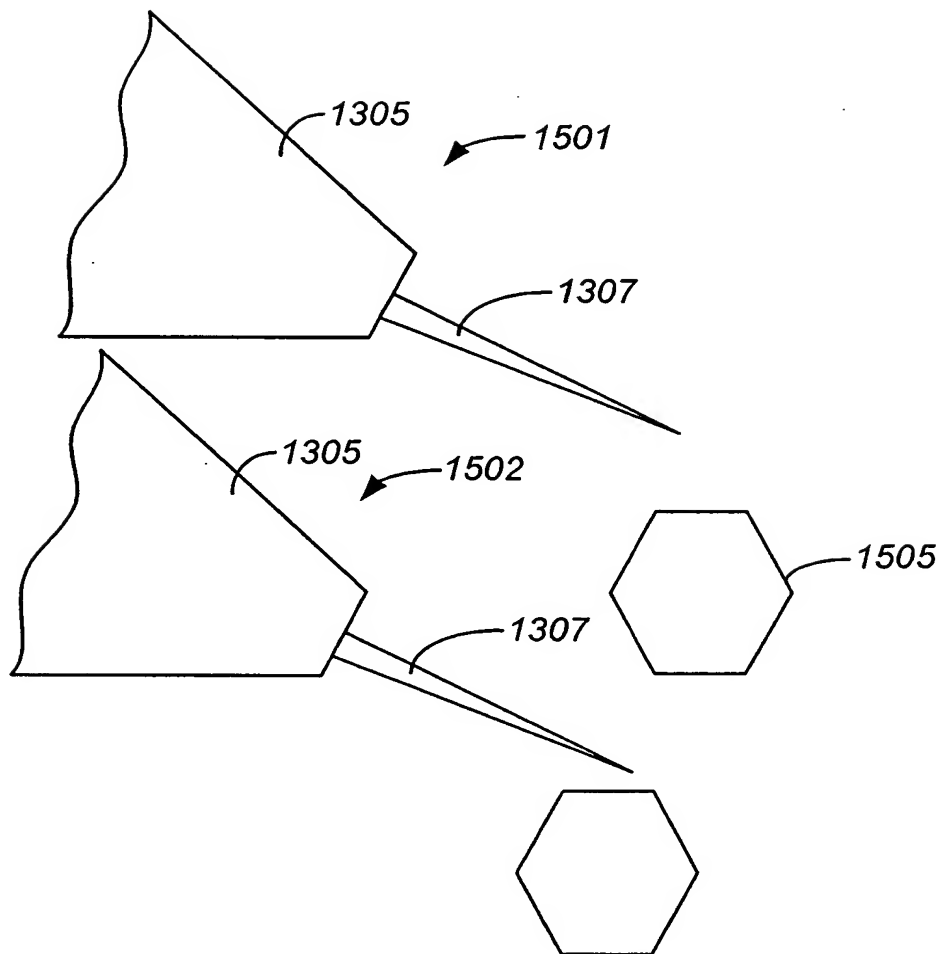


FIG. 15

21/38

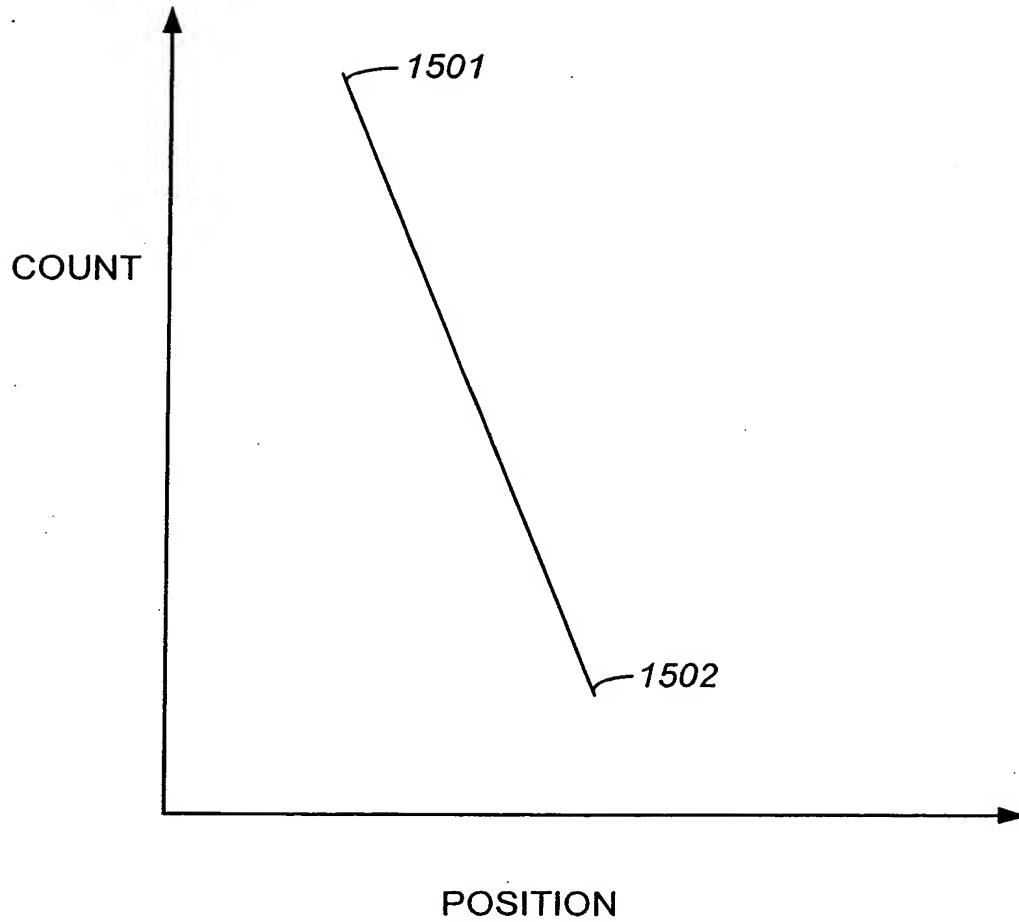


FIG. 16

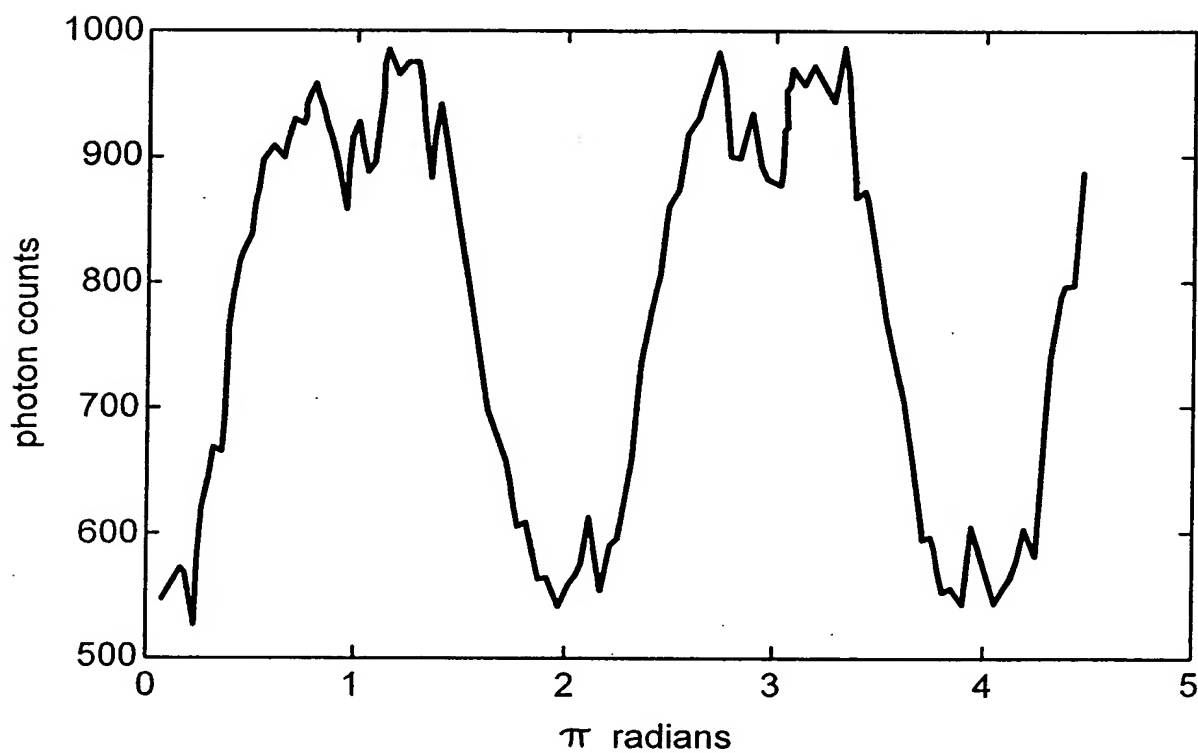


FIG. 17

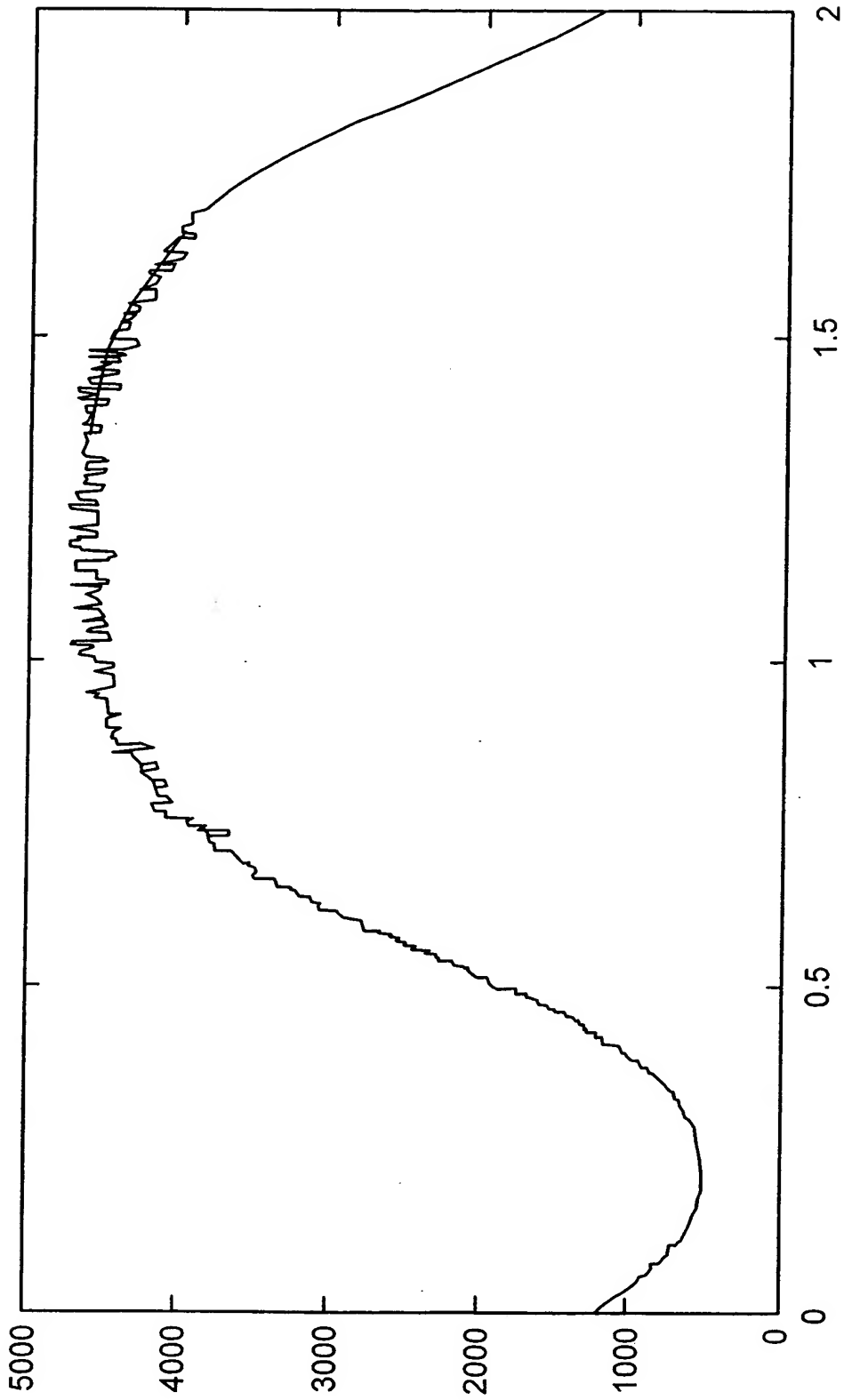


FIG. 18

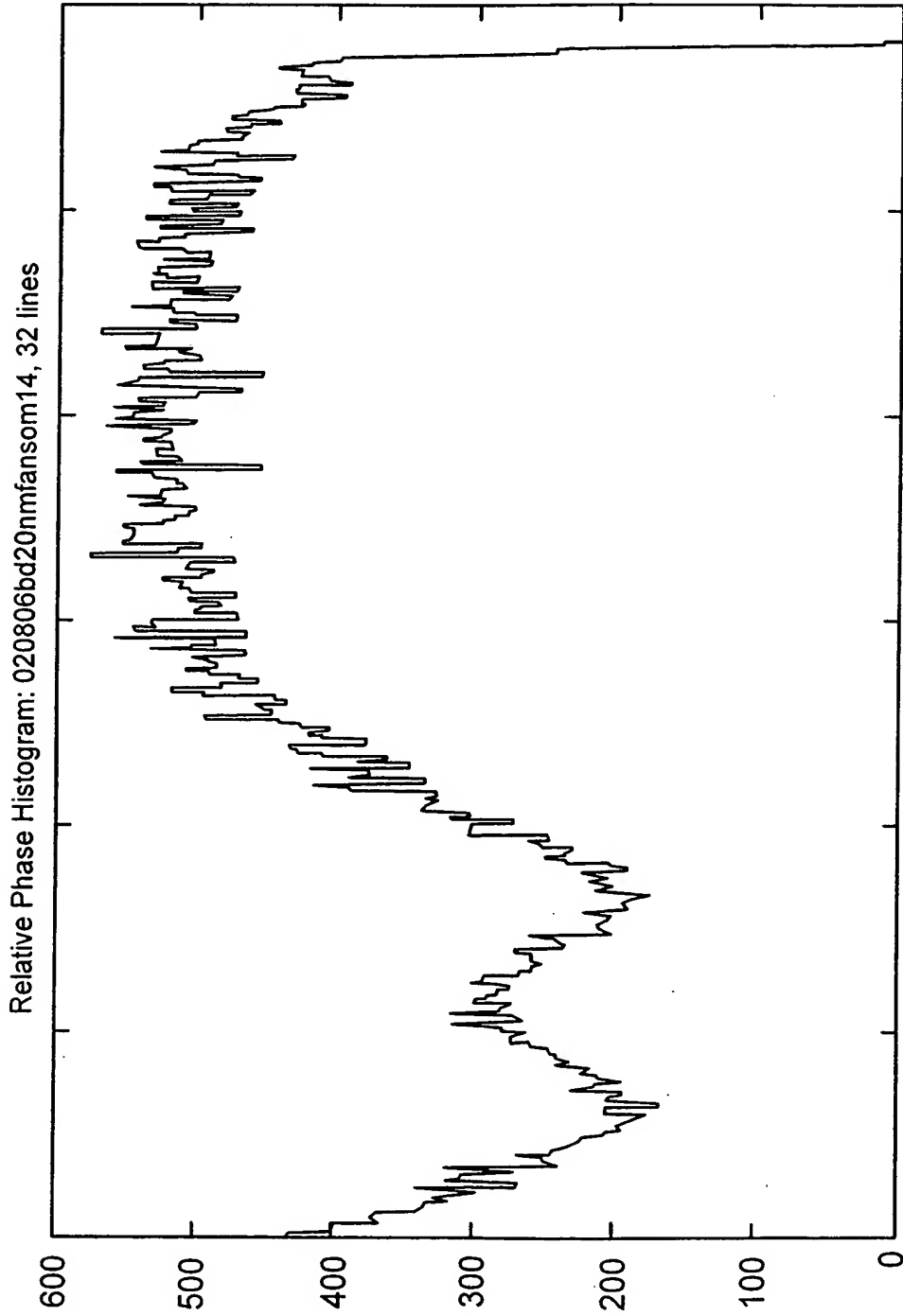


FIG. 19

25/38

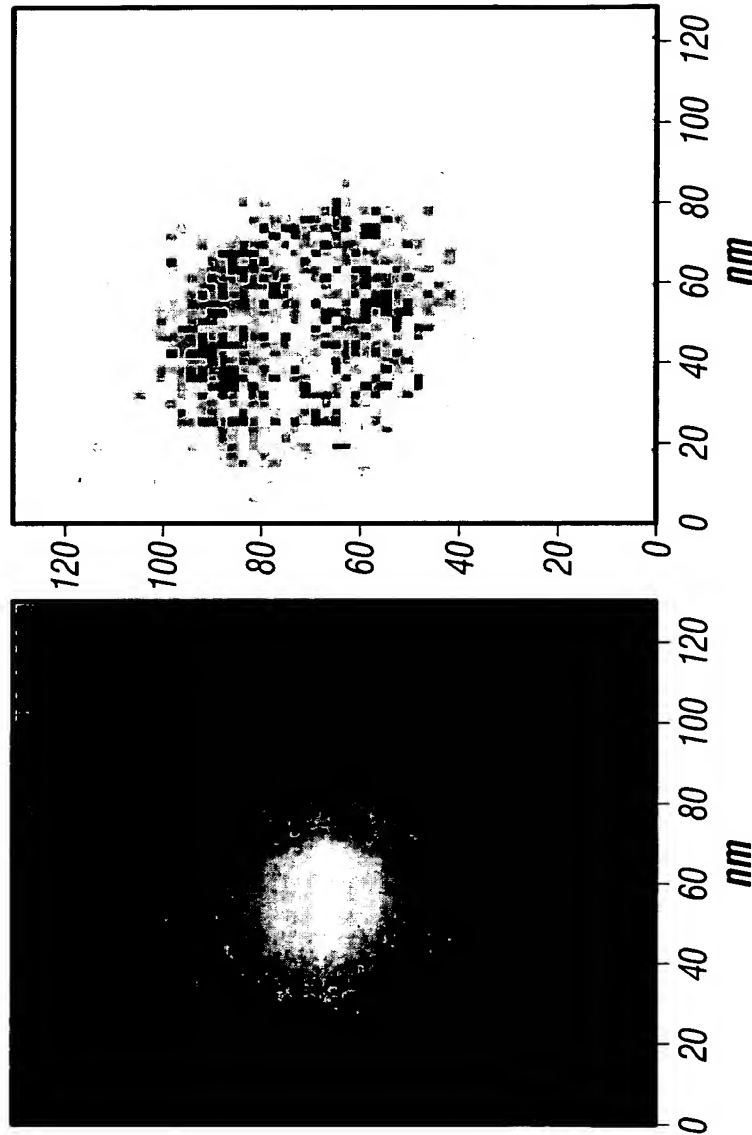


FIG. 20

APPROACH CURVE: FLUORESCENCE AS A FUNCTION OF VERTICAL DISTANCE

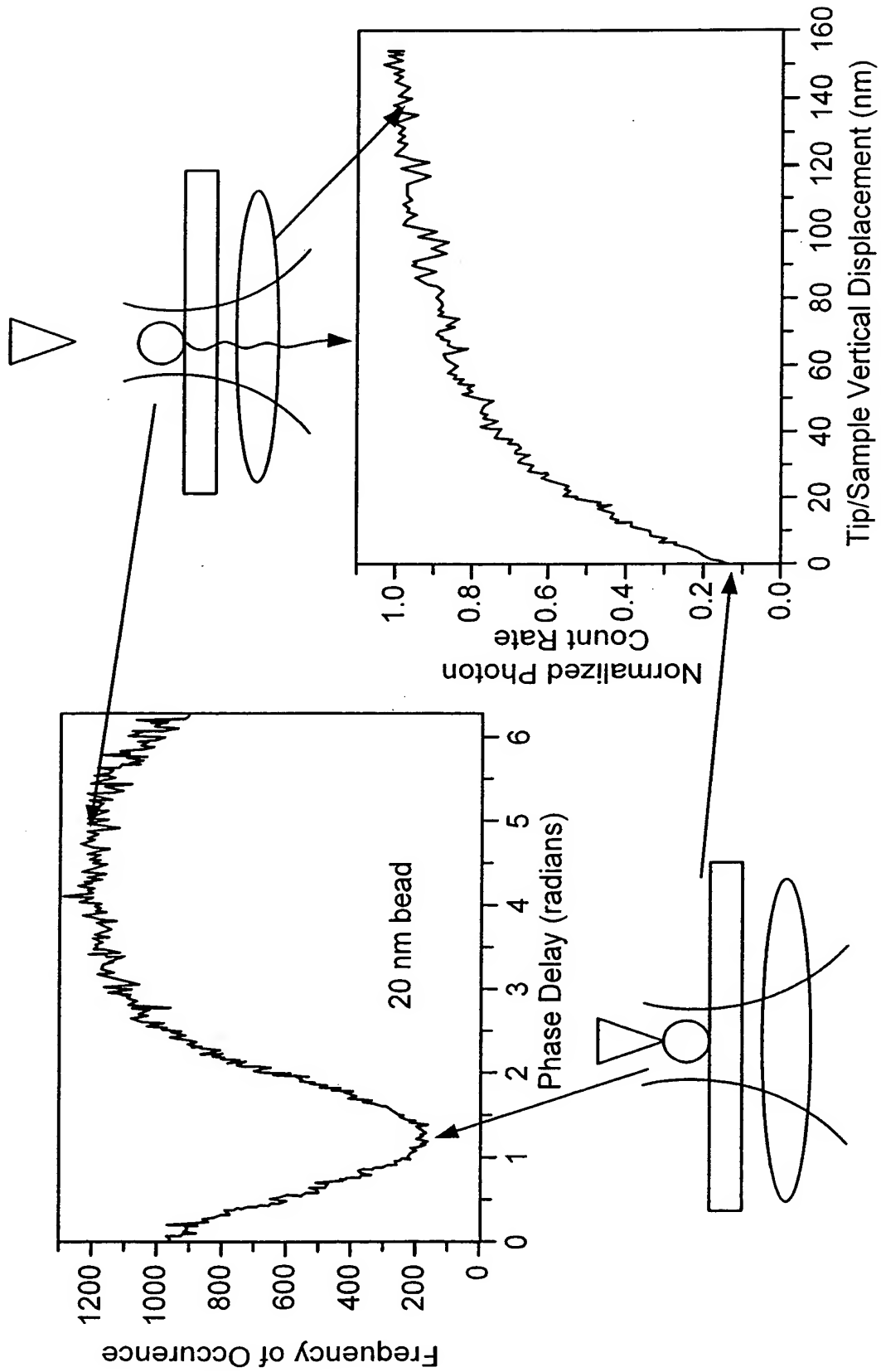
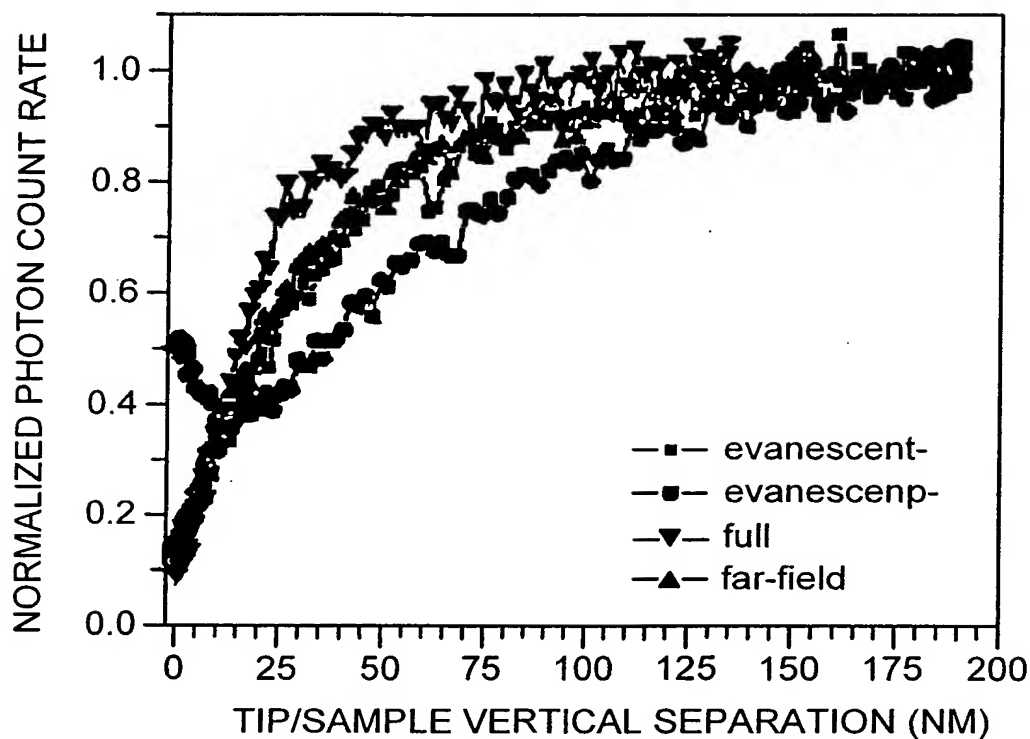


FIG. 20A

27/38

METALLIC TIPS



- PLATINUM-IRIDIUM COATED TIPS (COMMERCIAL)
- 85-90% SUPPRESSION OF FLUORESCENCE
- PARTIAL RECOVERY OF FLUORESCENCE FOR *P*-POLARIZATION

FIG. 20B

28/38

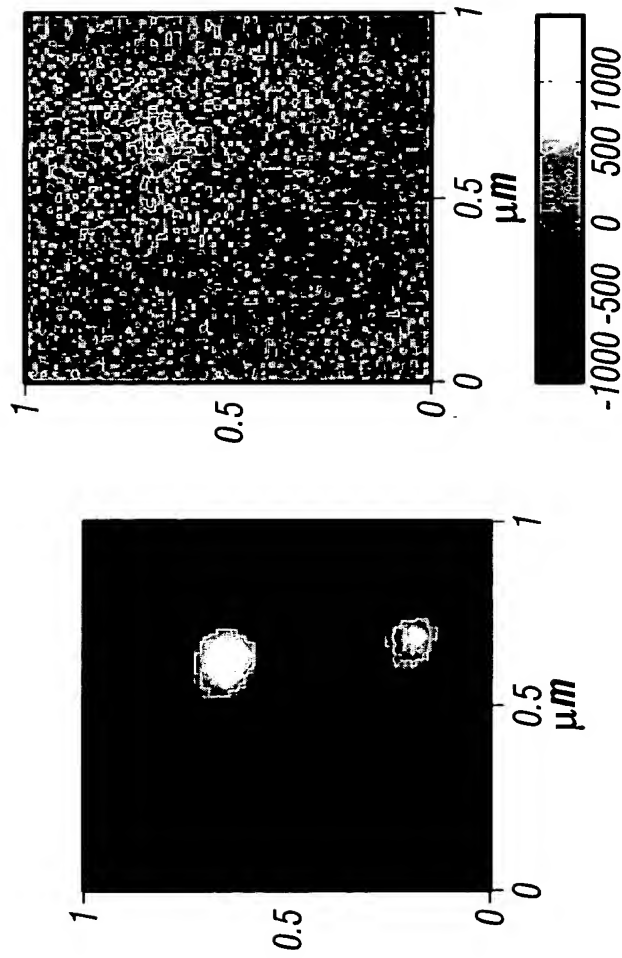


FIG. 21

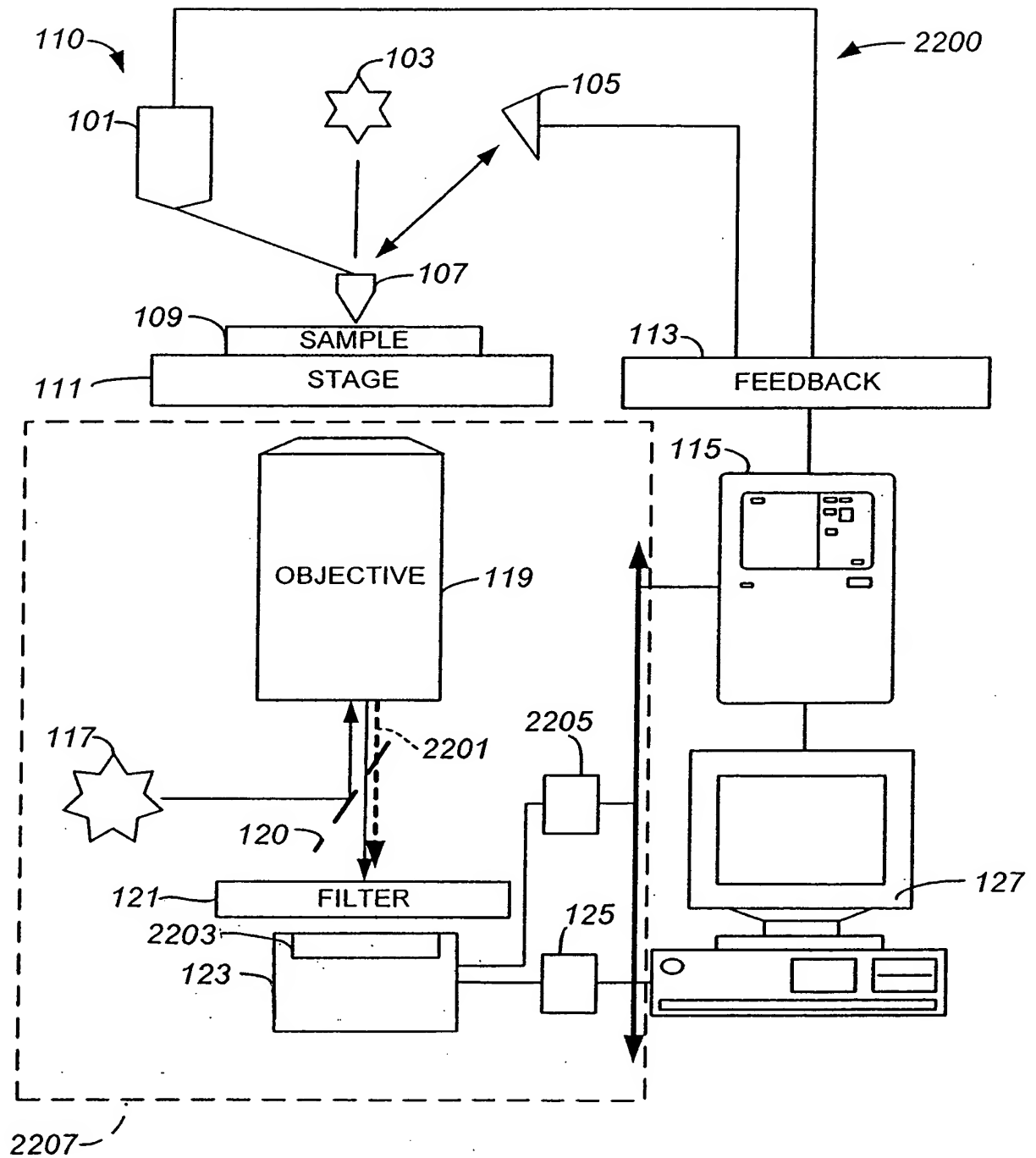


FIG. 22

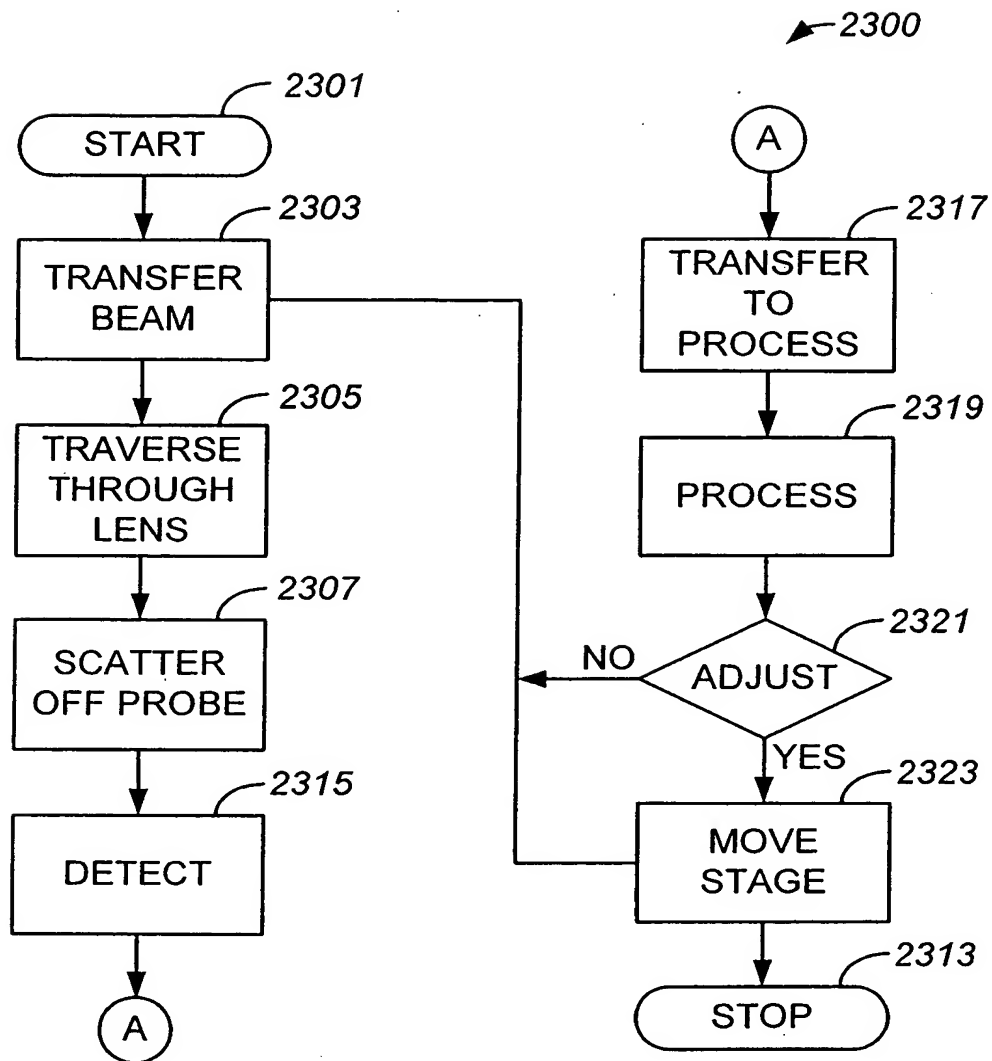


FIG. 23

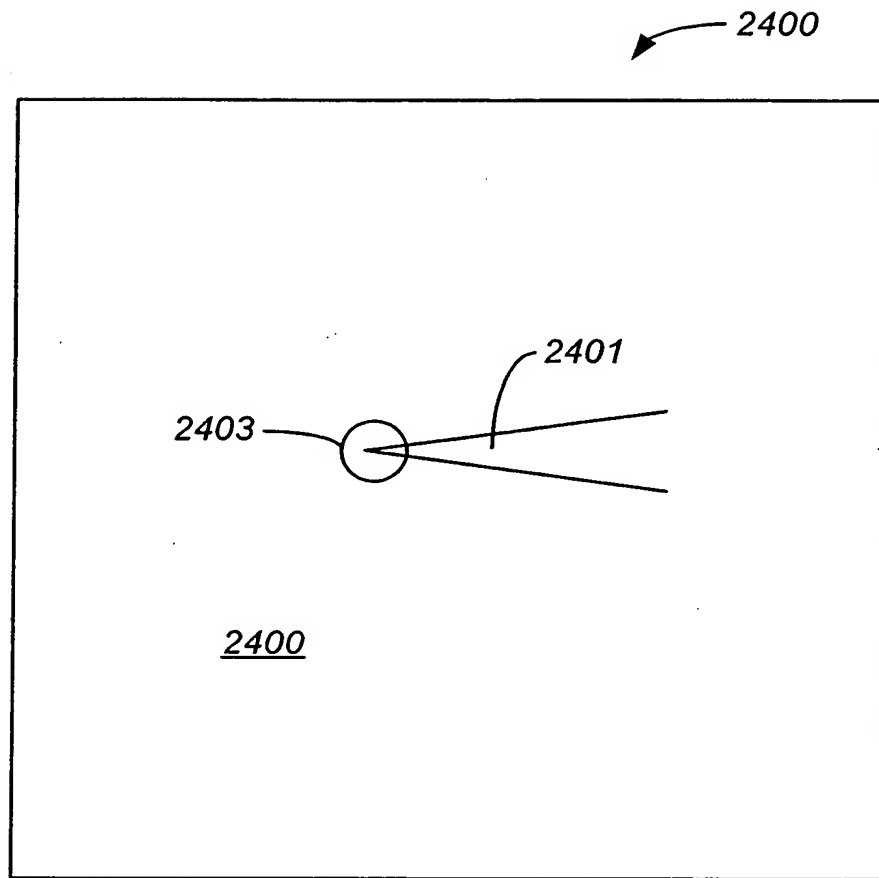


FIG. 24

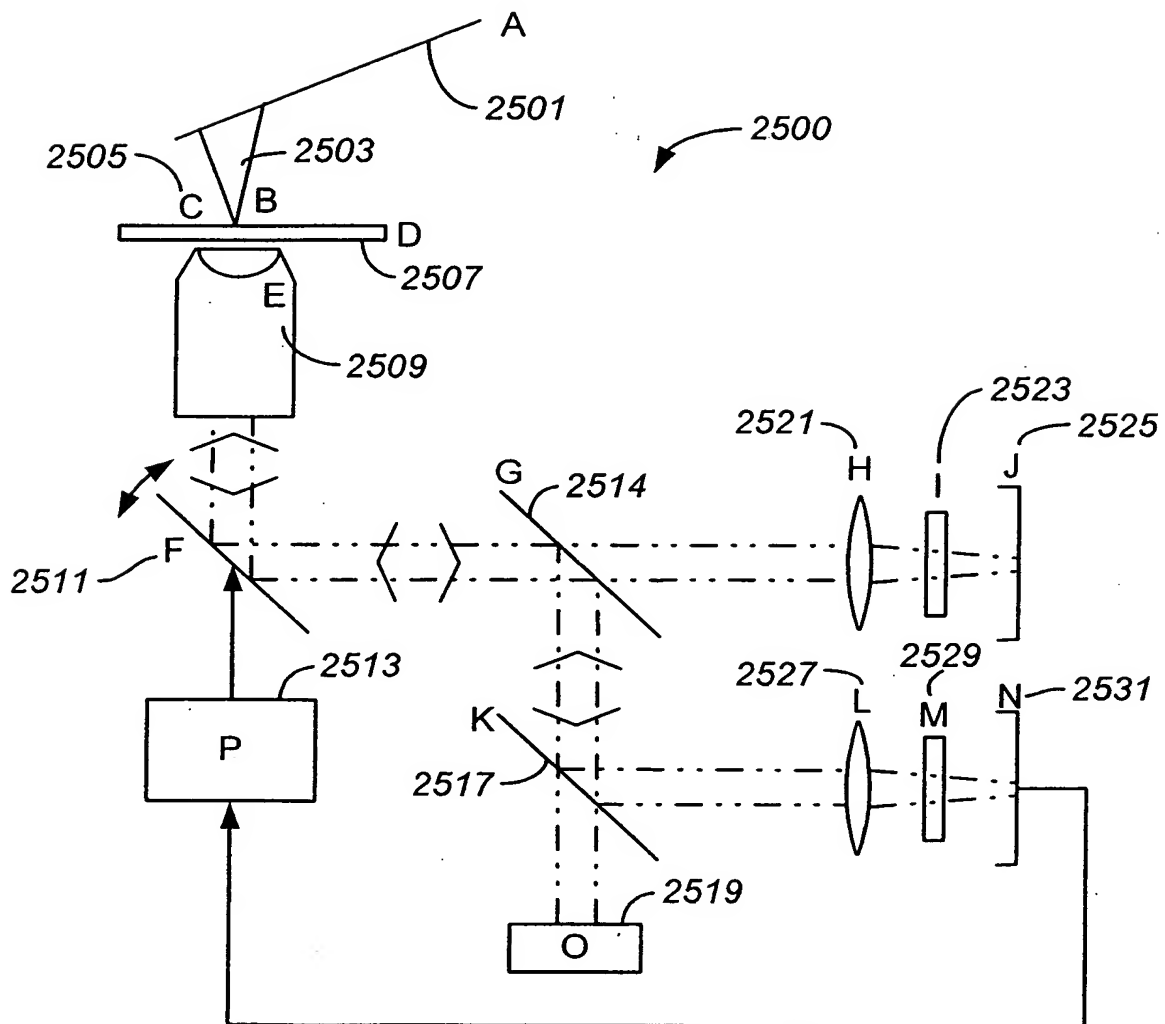


FIG. 25

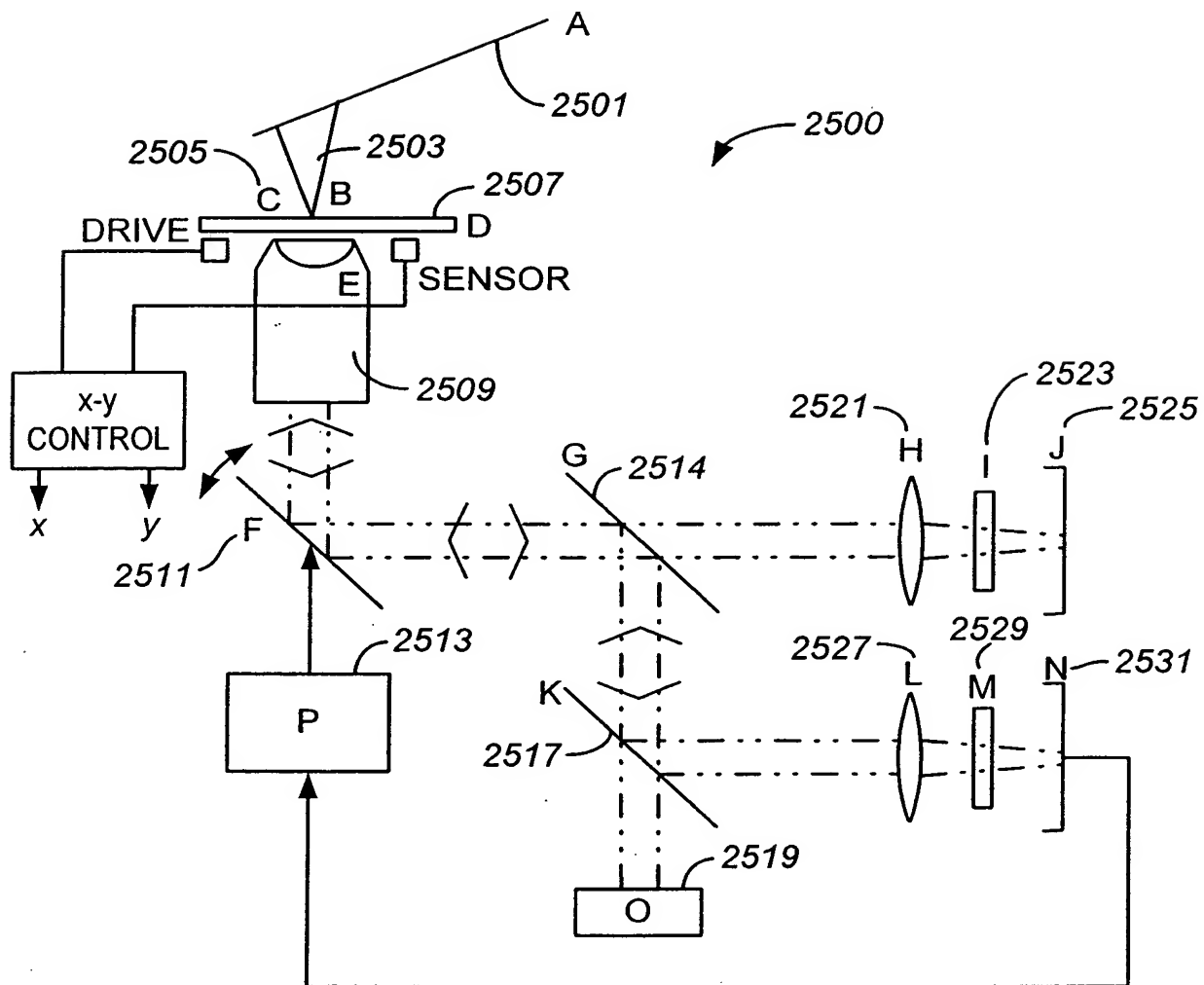


FIG. 25A

34/38

FILTER PLACEMENT

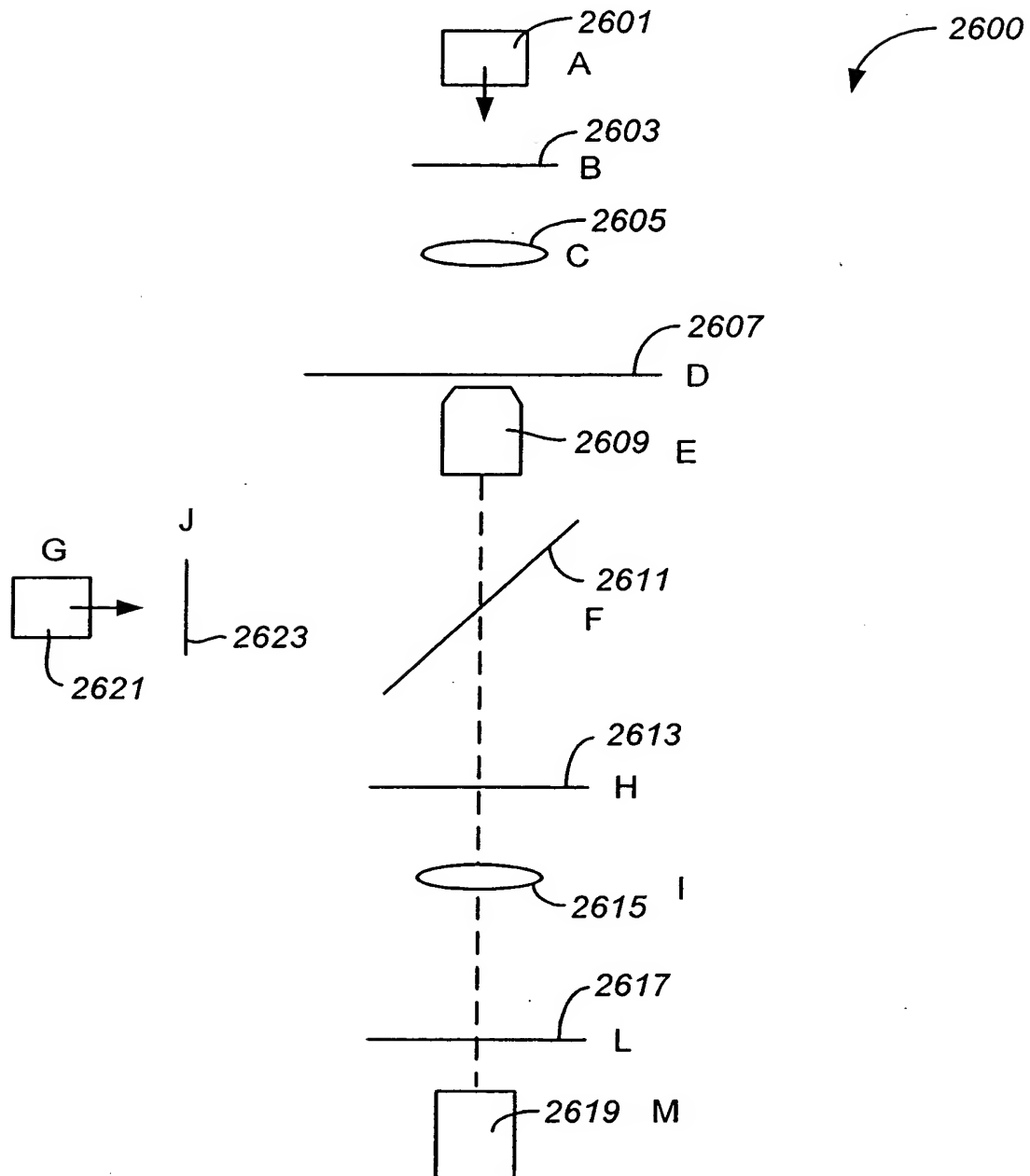


FIG. 26

35/38

SPECTRUM OF AFM LASER

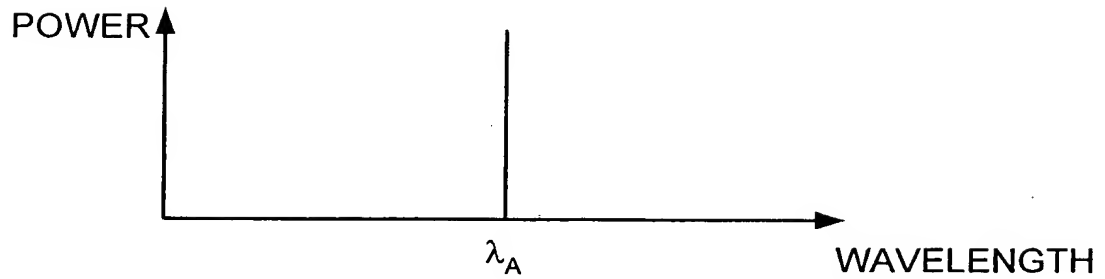


FIG. 27

RELATIVE POSITIONS OF WAVELENGTHS OF INTEREST

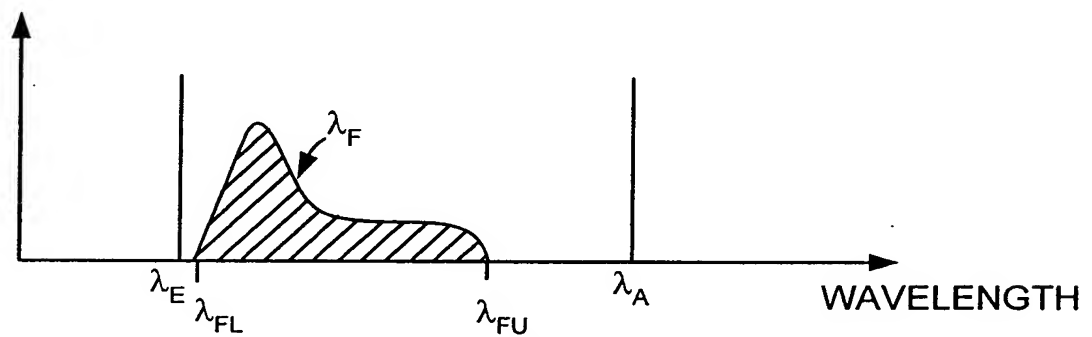


FIG. 28

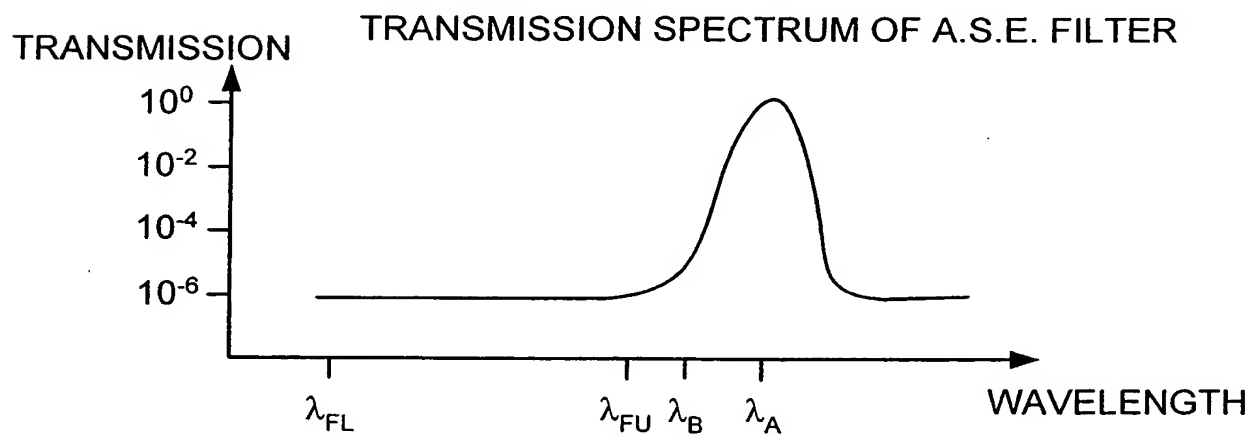


FIG. 29

TRANSMISSION SPECTRUM OF DICHOIC MIRROR

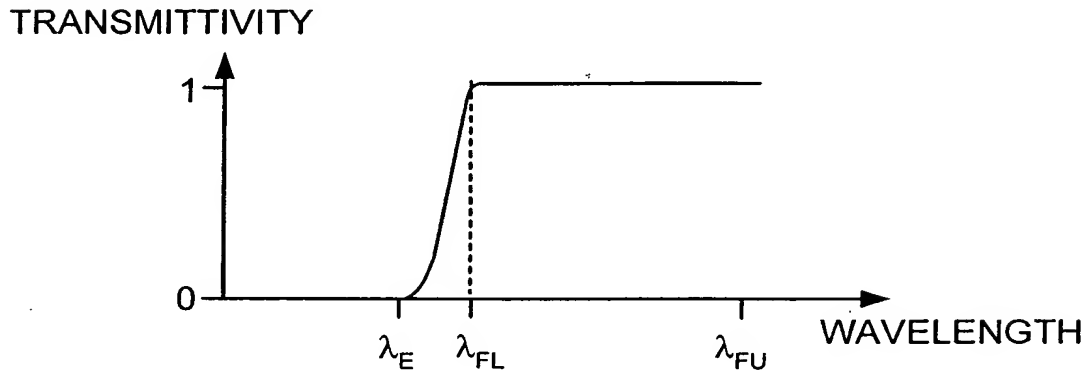


FIG. 30

TRANSMISSION SPECTRUM OF BLOCKING FILTER FOR WAVE LENGTH λ_1

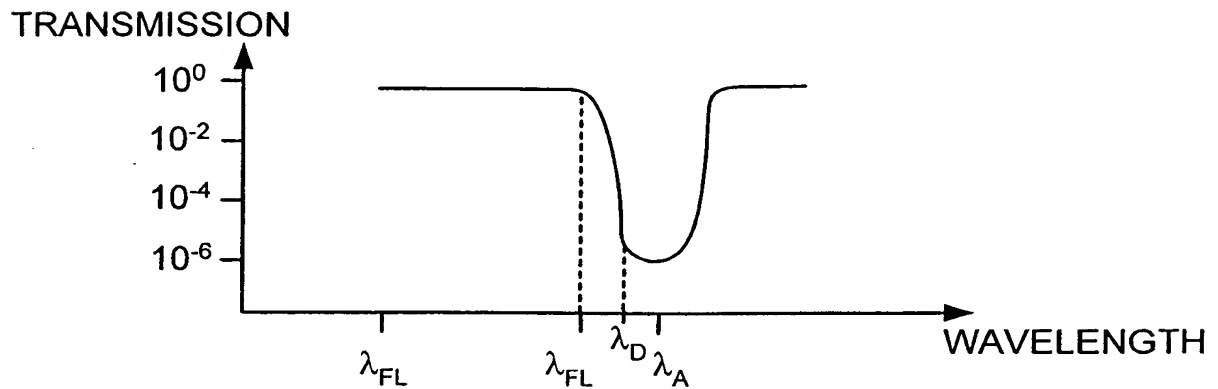


FIG. 31

37/38

SPECTRUM OF LASER FOR SAMPLE EXCITATION



FIG. 32

TRANSMISSION SPECTRUM OF THE "EXCITATION CLEAN-UP FILTER"

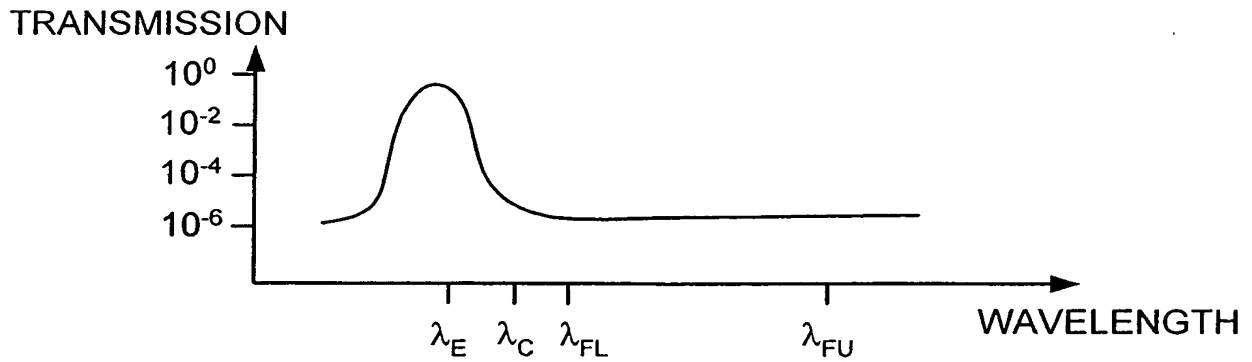


FIG. 33

TRANSMISSION SPECTRUM FOR
 "BLOCKING FILTER FOR SAMPLE DETECTOR"

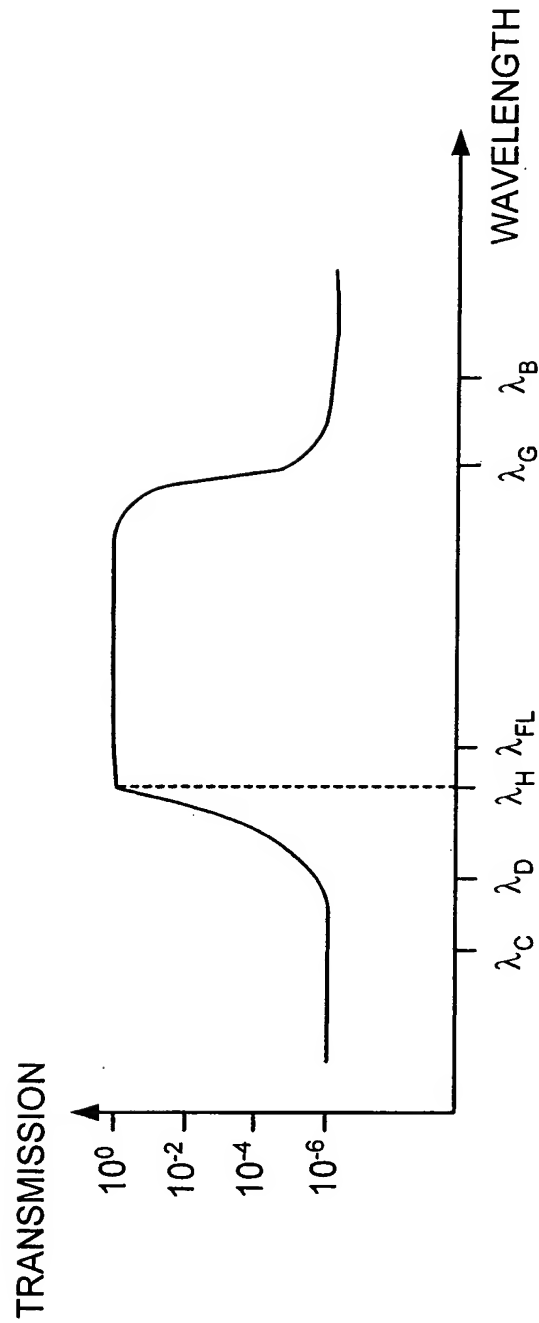


FIG. 34